CENTRAL ELECTRICITY SUPPLY UTILITY OF ODISHA

Head Office: IDCO TOWER, 2nd Floor, Janpath, Bhubaneswar-751022
TELEPHONE: (0674) - 2542895, 2545681, 2541727 FAX: 0674 – 2543125
website www. cescoorissa.com./ www. cesuodisha.com
(Purchase & Stores Cell)

TENDER SPECIFICATION NO
CESU/ P&S/314/ 2015-16

Supply of Hand Held Spot Billing Machines for Energy Meter Reading & Billing against Buy back of old SBM
(Under MR Head)

- **Last date of Sale of Tender Paper: Dt. 23.11.2015 upto 5 P.M.**
- **Pre Bid Meeting: Dt. 16.11.2015 at 11 A.M.**
- **Last Date of Receipt of Document: Dt.24.11.2015 upto 1 P.M.**
- **Opening of Tender Document: Dt. 24.11.2015 at 3.30 P.M.**
- **Place: CESU Head Office, 2nd Floor, IDCO Towers, Bhubaneswar**

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CENTRAL ELECTRICITY SUPPLY UTILITY OF ORISSA,
Head Office: 2nd Floor, IDCO Towers, Janapath, Bhubaneswar-751022
Phone: 0674-2545681, 2543721 Fax: 0674-2 543125
(Purchase & Stores Cell)

TENDER NOTICE

Tender Notice No: CESU Hqrs./P&S/612/2015-16(Vol-I)/ 27187 Dt- 06.11.2015

For and on behalf of the CESU, the undersigned invites sealed tenders in duplicate on two part bidding system from the eligible bidders, who comply to the terms and conditions for the supply of following materials super scribing the Tender Specification No., Name of the material & date of opening (as mentioned in the specifications).

The tender papers can be obtained from the undersigned at the above address on payment of the cost of Tender Paper indicated below in D.D drawn on any Scheduled Bank in favour of the CESU payable at Bhubaneswar. The cost of tender paper is non-refundable.

SCHEDULE OF MATERIALS TENDERED:

Sl. No	Tender Specification No.	Item No	Name of Materials	Unit	Quantity	Cost of Tender Paper (Rs.)	EMD (Rs.)
1	CESU /P&S/ 314/2015-16	1	Hand held Spot Billing Machines with Impact Printer loaded with desired software, battery & other accessories against Buy back of 300Nos. of old SBMs.	Nos.	300	15,000/- + 5% VAT	51,000/-
2		2	New Batteries suitable for above SBMs	Nos.	900		

TIME SCHEDULES:-

Sl. No.	Description of Event	Date & Time
1	Last Date & Time for selling of tender papers	**Dt. 23.11.2015 upto 5 P.M.**
2	Pre Bid Meeting	**Dt. 16.11.2015 at 11 A.M.**
3	Last Date & Time for submission of tender papers	**Dt. 24.11.2015 upto 1P.M.**
4	Last Date & Time for opening of tender papers	**Dt. 24.11.2015 at 3.30 P.M.**

The intending bidders can also download the tender document from our website **cesuodisha.com.** However the bidder has to furnish an Account Payee Bank Draft drawn on any Scheduled Bank in favour of the CESU payable at Bhubaneswar for the cost of the bid documents indicated above, along with his bid failing of which the bid will be rejected outright. In the event of any specified date for the sale, submission or opening of bids being declared a holiday for CESU, the bids will be sold / received / opened up at the appointed time on the next working day. CESU also reserves the right to accept or reject any or all tenders without assigning any reason thereof, if the situation so warrants. Request for tender document through postal is not acceptable. The bidders are requested to inspect the Old machines (SBM) at our Bhubaneswar Stores before submission of bids (In consultation with Sr.GM, IT, CESU).

For detail Tender Specification & Terms and Conditions, please visit our website **www. cescoorissa.com./ www. cesuodisha.com. For any further amendment & modifications on this tender if any, please visit our website regularly.**

Sd/-
Chief General Manager
(Purchase & Stores)

Memo No. 27188 **Dt. 06.11.15**

Copy forwarded to CFO, CESU / Sr. G.M. (Tech) / Sr. GM (I.T.) / DDO, CESU Head Office / Cash Section / Notice Board of this office for information & necessary action.

D.M. (P.R.) of this office for information & necessary action. This Tender Notice is to be published in India Times Portal, Two Leading ORIYA and Two leading English News Papers with all India circulation at the earliest.

Sd/-
Chief General Manager
(Purchase & Stores)

SECTION – I

INVITATION FOR BIDS (IFB)

CENTRAL ELECTRICITY SUPPLY UTILITY OF ORISSA
Head Office: IDCO TOWER, 2nd Floor, Janpath, Bhubaneswar-751022
TELEPHONE: (0674) - 2542895, 2545681, 2541727
FAX: 0674 – 2543125
(Purchase & Stores Cell)

INVITATION FOR BIDS (IFB)

FOR SUPPLY OF SPOT BILLING MACHINES

(COMPETITIVE BIDDING)

(Tender Specification No. CESU /P&S/ 314/2015-16)

SECTION –I

1.0 For and on behalf of the CESU, the undersigned invites bids under two part bidding system in sealed cover in duplicate duly super-scribed with tender specification No **CESU /P&S/ 314/2015-16 &** date of opening from reputed manufacturers only for **design, manufacture, supply, type testing, inspection, loading at factory, transportation to & unloading at site / stores including guaranteed obligation for supply of (i) Hand held Spot Billing Machines (SBM) with Impact Printer loaded with desired software, battery & other accessories on Buy back basis & (ii) New Batteries suitable for above SBMs.**

2.0 **Submission of the Bids:**

2.1 The Bidders are required to submit a detailed and comprehensive bid, consisting of Technical and Commercial Proposal and conditions / schedule of non-compliance, if any. The submission of the Bids shall be in the manner specified in the instruction to Bidders. The due date of submission shall be **Dt.24.11.15. up to 1PM.**

3.0 **CESU** will not be responsible for any costs or expenses incurred by bidders in connection with the preparation and delivery of bids.

3.1 **CESU** reserves the right to cancel, postpone, withdraw the invitation for Bids without assigning any reason thereof and shall bear no liability whatsoever consequent upon such a decision if the situation so warrants.

4.0 E.M.D & TIME SCHEDULES:

Description	**Date & Time**
Last date & Time for sale of bid document	**Dt. 23.11.2015 upto 5 P.M.**
Pre bid meeting	**Dt. 16.11.2015 at 11 A.M.**
Submission of Bids	**Dt. 24.11.2015 upto 1P.M.**
Opening of Bids	**Dt. 24.11.2015 at 3.30 P.M.**
Required Quantities of Materials:-	**As indicated at clause – 5 below.(Schedule of Requirement)**
Completion of the delivery	90 Days from the date of issue of Purchase order as per delivery schedule.
Cost of Bid Document (Non-Refundable)	Rs.15,750.00 (Rupees Fifteen Thousands Seven Hundred & Fifty Only) including 5 % VAT in shape of Cash / Account Payee Demand Draft issued in favour of the CESU OF Orissa, payable at Bhubaneswar Only.
Amount of E.M.D payable	Rs 51,000/- (Rupees Fifty One Thousand only) in shape of A/c payee Bank draft issued in favour of the CESU of Orissa, payable at Bhubaneswar only.

NB:- The bidders are requested to inspect the Old machines (SBM) at our Bhubaneswar Stores before submission of bids. (In consultation with Sr.GM, IT, CESU).

5.0 SCHEDULE OF REQUIREMENTS & DELIVERY:

<table>
<tr><th>Item
Sl. No.</th><th>Description of material</th><th>Units</th><th>Quantity</th><th colspan="3">Schedule Delivery period from date of Placement of the Order for the ordered materials</th></tr>
<tr><td>1</td><td>Hand held Spot Billing Machines (SBM) with impact printer as per the specification given in Section – IV loaded with desired software, batteries & other standard accessories necessary for communication with desktop (PC) and server, if required with 06 years guarantee.</td><td>Nos.</td><td>300</td><td colspan="3">300Nos to be delivered within 03 months</td></tr>
<tr><td rowspan="3">2</td><td rowspan="3">Description of material
Additional new batteries suitable for above machines.</td><td rowspan="3">Nos.</td><td rowspan="3">900</td><td colspan="3">900Nos. new additional batteries to be delivered in 3 consignments as detailed below.</td></tr>
<tr><td>1st Consignment of Batteries (During 18th Month)</td><td>2nd Consignment of Batteries (During 36th Month)</td><td>3rd Consignment of Batteries (During 54th Month)</td></tr>
<tr><td>300</td><td>300</td><td>300</td></tr>
</table>

Note: (i)CESU may re-schedule the due date of delivery as per their own requirement.

(ii) Bidders have to quote full quantity of each item indicated above, failing which their bid may not be considered.

6.0 QUALIFICATION OF BIDDERS:

6.1 **Criteria for qualification:**

6.1.1. **Technical:**

a) The bidder should be a manufacturer of Spot Billing Machines for which he submits his offer.

b) The bidder has to quote **100% of the tendered quantity of the Spot Billing Machines** for which he submitted tender covered under this specification. The bidder should have **supplied spot billing machines, minimum of the tendered quantity during any one of the financial year** out of the immediate past three financial years. Bidders shall submit self attested copies of P.O.'s executed successfully for the relevant years and abstract thereof to prove the quantity as supplied.

c) The bid shall be accompanied by user's certificate from any distribution Utility/ reputed private organization/ State Govt. / Central Govt. or their undertaking(s) in support of satisfactory performance of their above materials supplied earlier.

d) The offered materials should have been tested at any Govt. approved laboratory/NABL accredited laboratory, such as ERTL/CPRI/ERDA etc. The bid shall accompany with type-test reports for the offered materials conducted within five years from date of tender. **Bids not accompanied with such test reports conducted within five years shall not be considered for evaluation.**

e) **The bidder(s) who have earlier failed to execute the Purchase Order(s) of the CESU and or black listed by the CESU / any of the distribution Utility shall not be eligible to participate in this tender.**

f) CESU reserve the right to waive the minor deviation, if they don't materially affect the capacity of the bidder to perform the contract.

6.1.2 **Financial:-**

The minimum average annual turn over during best 3 financial years out of last 5 financial years shall be as follows:-

Sl. No.	Description of Materials Tendered	Minimum Average Annual Turn over (in Rs.)
1	Spot Billing Machines	**1,02,00,000/-**

N.B : The bidders must furnish self attested Audited Annual Accounts of last 3 best financial years to establish their Turn Over requirement.

6.1.4. **Documentation:** The Bidders shall furnish the documents as per Clause.8 of section-II (ITB) of this tender specification along with their bid

7.0 **PRE-BID CONFERENCE:**

A pre-bid meeting will be held on **Dt.16.11.2015 at 11.00AM** in the Conference Hall of the CESU for giving clarifications if any on the bid documents to the respective bidders, who may choose to attend the meeting as detailed in the bid documents. However, it is discretion of the CESU to call for Pre-Bid Conference.

8.0 All correspondence with regard to the above shall be made to the following address:

Chief General Manager,
Purchase & Stores,
CESU Head Quarters, 2nd Floor,
IDCO Towers, Bhubaneswar – 751022
Ph: 0674 – 2545681
Fax:0674-2543125

SECTION –II

INSTRUCTION TO BIDDERS (ITB)

SECTION –II

INSTRUCTION TO BIDDERS (ITB)

1. **SOURCE OF FUNDS:**

1.1 CESU hereinafter referred to as the "Purchaser'" is desirous of procurement of Spot Billing Machines loaded with desired software, Batteries & other accessories for generation of energy bills to be served to its consumers from the funds available under MR Head.

2. **SCOPE OF WORK:**

2.1 The scope of work in brief shall include design, manufacture, type testing, inspection, supply, loading at factory, transportation to site / unloading at stores including guaranteed obligation of complete supply of materials (As per Clause 5 of Section-I IFB) in conformity to the technical specification enclosed herewith in **Section –IV.** Besides above, the scope includes supply of mandatory spares as indicated at Clause.25.4 of this section without any additional cost. The above new SBMs shall be supplied on Buy back of old machines available with CESU.

3. **DISCLAIMER:**

3.1 This Document includes statements, which reflect various assumptions, which may or may not be correct. Each Bidder should conduct its own estimation and analysis and should check the accuracy, reliability and completeness of the information in this Document and obtain independent advice from appropriate sources in their own interest.

3.2 Neither CESU nor its employees will have any liability whatsoever to any Bidder or any other person under the law or contract, the principles of restitution or unjust enrichment or otherwise for any loss, expense or damage whatsoever which may arise from or be incurred or suffered in connection with anything contained in this Document, any matter deemed to form part of this Document, provision of Services and any other information supplied by or on behalf of CESU or its employees, or otherwise arising in any way from the selection process for the Supply / provision of Services for the Project.

3.3 Though adequate care has been taken while issuing the Bid document, the Bidder should satisfy himself that documents are complete in all respects. Intimation of any discrepancy/ doubt shall be sent in the CESU address for speedy response.

3.4 This document and the information contained herein are **Strictly Confidential** and are for use of only the person (s) to whom it is issued. It may not be copied or distributed by the recipient to third parties (other than in confidence to the recipient's professional advisors).

4 **COST OF BIDDING:**

4.1 The Bidder shall bear all costs associated with the preparation and submission of its Bid and **CESU** will in no case be responsible or liable for those costs.

5. **BIDDING DOCUMENTS:**

5.1 The Scope of Work, Bidding Procedures and Contract Terms are described in the Bidding Documents. In addition to the covering Letter accompanying Bidding Documents, the Bidding documents include:

(a)	Invitation of Bids (IFB)	-	Section –I
(b)	Instruction to Bidders (ITB)	-	Section –II
(c)	General Terms and Conditions of Contract (GTCC)	-	Section –III
(d)	Technical Specification	-	Section –IV
(e)	List of Annexures	-	Section –V

5.2 The Bidder is expected to examine the Bidding Documents, including all Instructions, Forms, Terms and Specifications. Failure to furnish all information required by the Bidding Documents or submission of a Bid not substantially responsive to the Bidding Documents in every respect will / may result in the rejection of the Bid.

6. **AMENDMENT OF BIDDING DOCUMENTS:**

6.1 At any time prior to the deadline for submission of Bids, **CESU** may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Bidding Documents by way of issuing an addendum.

6.2 The Amendment / Addendum shall be part of the Bidding Documents, pursuant to Clause 6.1, and it will be binding on the Bidder(s).

6.3 In order to afford prospective Bidders reasonable time in which to take the Amendment into account in preparing their Bids, **'CESU'** may, at its discretion, extend the deadline for the submission of Bids.

7. **LANGUAGE OF BID:**

The Bid, prepared by the Bidder, and all correspondence and documents relating to the Bid exchanged by the Bidder and the **CESU**, shall be written in the English Language. Any printed literature furnished by the Bidder may be written in another Language, provided that this literature is accompanied by an English translation, in which case, for purposes of interpretation of the Bid, the English translation shall govern.

8. **DOCUMENTS COMPRISING THE BID:**

8.1 The Bid prepared and submitted by the Bidder shall comprise of two parts i.e.
Part-I (Techno-Commercial Part), & Part-II (Price Bid) .

(A) The Part-I (Techno-Commercial Part) must contain the following documents.

(a) One sample of offered SBM with application software, offered printer and communication cables along with the test reports shall be submitted along with the offer.

(b) Bid Document signed by the bidder in every page, all other Schedules / Formats enclosed in the Bid-Document (i.e. Annexure-I, II, IV, V, VI (A), VI (B), VII, VIII) duly filled in & signed by the bidder with seal. **Bids containing information in formats other than our prescribed formats as above shall not be acceptable and may make the bid non-responsive.**

(c) Requisite Bid Security (EMD) as per clause No. 4 of Section –I, IFB. In a separate envelop super scribed as **"EMD ".**

(d) Following Documentary evidence establishing in accordance with Clause-6, IFB, that the Bidder is qualified to perform the Contract if the Bid is accepted;

(i) Self attested copies of Purchase Orders executed in last 3 Years.

(ii) Self attested copies of Performance Certificates / Successful contract completion Certificates from above buyers preferably from Electricity Distribution Utilities / Government Organizations.

(iii) Type Test Reports from any Government approved Laboratory/ NABL accredited laboratory, such as ERTL/CPRI/ERDA etc. for the offered equipments along with the copies of drawings duly approved by the Type Testing Agency for the tests conducted not before 5 years from the date of opening of Bids.

(iv) Copies of Profit & Loss Accounts & Audited Balance Sheet indicating Turnover for best 3 financial years out of last 5 financial years.

(e) Power of Attorney / Board resolution indicating that the person(s) signing the Bid have the authority to sign the Bid and as such the Bid is binding upon the Bidder during the full period of its validity, in accordance with clause 14.

(f) Requisite Cost of Tender Document as per clause 4 of Section –I, IFB in shape of Bank Draft from a **Scheduled Bank** issued in favour of the CESU of Orissa Payable at Bhubaneswar is to be enclosed along with the Bid, if the document is downloaded from our web-site.

Or else, the Original Copy of Money Receipt for the payment made towards the cost of Tender Document is to be enclosed along with Bid, if the document is directly purchased from our Cash Counter at our Head Office.

(B) Part-II (Price-Bid) : Shall contain the price schedules as per prescribed format at Annexure-V, duly filled in & signed by the bidder with seal. (This shall be submitted in a double sealed envelop separately duly superscribed as "**Price Bid**")

9. **SUBMISSION OF BID:**

9.1 The Bidder shall complete and submit the Bid Document in duplicate enclosing all documents at clause "8" above in two sealed envelops for Original & Duplicate separately, super scribing Tender Notice No……..,Date……., Tender Specification No……., Date of Opening …….. & Description of <Equipment/Material>.

9.2 **E.M.D:**

9.2.1 The bidder shall submit E.M.D as a part of the bid in the prescribed manner for the amount mentioned in Clause No.4 of Section –I.

9.2.2 The E.M.D is required to protect the CESU / it's representative against the risk of bidder's conduct, which would warrant the security's forfeiture.

9.2.3 The E.M.D shall be in the following form:

A/C Payee Demand Draft in favour of the CESU of Orissa issued by a Scheduled Bank payable at Bhubaneswar only.

9.2.4 Unsuccessful bidder's E.M.D shall be refunded back as promptly as possible, but not later than thirty (30) days after the expiry of the period of bid validity. The successful bidder's E.M.D shall be discharged upon furnishing of the performance security.

9.2.5 The E.M.D may be forfeited due to following reasons:

1) If the bidder withdraws bid during the period of bid validity specified by the bidder in the bid form.
2) In case the successful bidder fails to sign the contract in specified time and / or fails to submit the requisite performance Bank guarantee.
3) In case of failure to supply the Materilas/Equipments during the contractual delivery period.

10. **BID PRICE:**

10.1 Bidders have to quote for the full quantity of each item as the case may be covered under this specification strictly as per the enclosed format in Section –V. The total Bid Price shall also cover all the Supplier's obligations mentioned in or reasonably to be inferred from the Bidding Documents in respect of Design, Supply, testing, inspection, Transportation to Site/stores, all in accordance with the requirement of Tender Documents. The Bidder shall complete the appropriate Price Schedules enclosed herein at Annexure – V, stating the Unit Price for each item, all other leviable taxes & duties, transportation, insurance separately and thereby arriving at the total Price. Price of battery and consumables offered should be valid for 6 years from the date of placement of P.O.

10.2 In case there is any increase in the number of units as compared to those mentioned in the IFB, the Contract Price shall be subject to increase proportionately on prorata basis.

10.3 The Price offered shall be inclusive of all costs as well as Duties, Taxes and Levies paid or payable during implementation of the contract. If the Bidder is exempted from Excise duties, concession in the Sales Tax, Levy of Entry Tax , the same should be clearly mentioned supported with documentary evidence.

10.4 Prices quoted by the Bidder shall be **"FIRM"** and not subject to any price adjustment during the performance of the Contract. A Bid submitted with variable Price or an adjustable price clause shall be treated as non-responsive and rejected outright**.**

10.5 The Prices quoted in the Price Schedule shall be treated as final. The bidders should take care of specifying the break up prices along with the rates of taxes & duties in respective columns in the Price Schedule.

10.6 Any revised/supplementary price bids offer after the due date of opening of the price bid shall not be considered unless specifically asked by the CESU.

11. **CONTRACT PRICE:**

11.1 The Ex-Works Prices quoted for the Contract shall remain FIRM as per the above Parameters and CESU shall not compensate Bidder for any variations. However, any variation in the taxes & duties within the Scheduled date of delivery shall be borne by CESU, else the same shall be borne by the Bidder.

11.2 In case the CESU, revise the scope of woks, bidders shall be compensated based on the Unit Rate (Ex –Works) agreed upon before Order placement or as per mutually acceptable rates.

12. **BID CURRENCIES:**

12.1 Prices shall be quoted in Indian Rupees Only.

13. **DOCUMENTS ESTABLISHING CONFORMITY TO THE BIDDING DOCUMENTS:**

13.1 The bidder shall confirm by documentary evidence of the Good's conformity to the Bidding Documents by submitting <Materials/equipment> data sheets.

14. **PERIOD OF VALIDITY OF BIDS:**

14.1 Bids shall remain valid for **180 days** from the date of opening of Bids.

14.2 Notwithstanding Clause 14.1 above, the **CESU** may solicit the Bidder's consent to an extension of the Period of Bid Validity. The request and the responses thereto shall be made in writing or by Fax.

15. **ALTERNATIVE BIDS:**

15.1 Bidders shall submit Bids, which comply with the Tender Documents. Alternative bids shall not be considered for evaluation.

16. **FORMAT AND SIGNING OF BID:**

16.1 The original Bid Form and accompanying documents (as specified in Clause-9), clearly marked "**Original Bid",** plus one copy of the Technical and un-priced Commercial Proposal must be received by the **CESU** at the date, time and place specified pursuant to Clauses 17 and 18. The Price Bid in Original should be submitted in a separate sealed envelope marked as **"Price Bid"**. In the event of any discrepancy between the original and the copies, the original shall govern.

16.2 The original and the duplicate copy of the Bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to sign on behalf of the Bidder. Such authorization shall be indicated by written Power-of-Attorney / Board Resolution accompanying the Bid.

16.3 The Bid shall contain no interlineations, erasures, overwriting except as necessary to correct errors, made by the Bidder, in which case such corrections shall be initialed by the person or persons signing the Bid.

17. **SEALING AND MARKING OF BIDS:**

17.1 Bid submission: One Original Hard Copy of all the Bid Documents shall be sealed and submitted to the CESU before the closing time for submission of the bid.

17.2 The Bid proposal should be divided into two parts and should be submitted in two separate sealed envelopes, addressed to CESU. All the envelopes should bear the Name and Address of the Bidder and marking for the Original and the duplicate copy. The envelopes should be super-scribed with the title of its contents, as follows:

i) **TECHNO COMMERCIAL BID ENVELOPE:** Shall contain the Bid Security, Cost of Tender Document, all supporting documents for qualifying requirement of this tender, duly filled in formats Abstract of General Terms & Conditions, Declaration Form, Technical Data Schedule, Technical & Commercial Deviations formats, Un-quoted blank

Price Schedule etc. enclosed at Annexure I, II, IV, V, VI(A) , VI (B), VII, VIII) at Section-V of this document .

ii) PRICE BID ENVELOPE: Shall contain the Price schedule duly filled in & ink-signed as per Annexure –V at Section-V of this document. (This shall be submitted in a double sealed envelope separately.)

17.3 **The inner and outer envelopes shall:**

a) Be addressed to the **Purchaser** at the following address:

Chief General Manager,
Purchase & Stores,
CESU Head Quarters, 2nd Floor,
IDCO Towers, Bhubaneswar – 751022
Ph: 0674 – 2545681
Fax:0674-2543125

b) Bear the Project name as: "**Design, Manufacture, Testing, Inspection and Supply of Spot Billing Machines with impact printer, batteries & other accessories** as per **Schedule of Requirement in Section-I)** – Specification No **CESU /P&S/ 314/2015-16.**

In addition to the information required in sub clause (a) and (b) above, the inner envelope shall indicate the name and address of the Bidder to enable the Bid to be returned unopened in case it is declared "Late" pursuant to Clause 20.

17.4 The Bidders have the option of sending the Bids by post/ Courier services or in person. Bids submitted by Telex/Telegram/Fax will not be accepted. No request from any Bidder to **CESU** to collect the proposals from Airlines/ Cargo Agents etc. shall be entertained by CESU.

18. **DEADLINE FOR SUBMISSION OF BIDS:**

18.1 The original Bid together with required copies, must be received by the **CESU** at the address specified in Clause 17.3 not later than **Dt.24.11.15, 1.00PM** (IST) on the due date as indicated in the invitation for bids.

18.2 **CESU** may, at its discretion, extend the dead line for the submission of Bids by amending the Bidding Documents, in which case all rights and obligations of CESU and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

19. **ONE BID PER BIDDER:**

19.1 Each Bidder shall submit only one Bid.

20. **LATE BIDS:**

20.1 Any Bid received by CESU after the deadline for submission of Bids prescribed by CESU, pursuant to Clause-18, will be declared "Late" and rejected outright and returned unopened to the Bidder.

21. **MODIFICATION AND WITHDRAWAL OF BIDS:**

21.1 The Bidder may modify or withdraw his Bid after the Bid's submission, provided that written notice of the modification or withdrawal is received by **CESU** prior to the deadline prescribed for submission of Bids.

21.2 The Bidder's modification or withdrawal notice shall be prepared, sealed, marked and dispatched in accordance with the provisions of Clause 17 & 18. A withdrawal notice may also be sent by fax but must be followed by an original signed confirmation copy.

21.3 No Bid may be modified subsequent to the deadline for submission of Bids.

21.4 No Bid may be withdrawn in the interval between the deadline for submission of Bids and the expiry of the period of Bid validity specified by the Bidder on the Bid form as per clause-14.

22.0 **EVALUATION OF BID:**

22.1 **PROCESS TO BE CONFIDENTIAL:**
Information relating to the examination, clarification, evaluation and comparison of Bids and recommendations for the award of a contract shall not be disclosed to Bidders or any other persons not officially concerned with such process. Any effort by a Bidder to influence CESU's processing of Bids or award decisions may result in the rejection of the Bidder's Bid.

23. **CLARIFICATION OF BIDS:**
To assist in the examination, evaluation and comparison of Bids, CESU may, at its discretion, ask the Bidder for a clarification of its Bid. All responses to requests for clarification shall be in writing and no change in the price or substance of the Bid shall be sought, offered or permitted.

24. **PRELIMINARY EXAMINATION OF BIDS / RESPONSIVENESS:**

24.1 CESU will examine the Bids to determine whether they are complete, whether any computational error have been made , whether required sureties have been furnished, whether the documents have been properly signed, and whether the Bids are generally in order.

24.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price per item that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price per item will be corrected. If there is a discrepancy between the Total Amount and the sum of the total price per item, the sum of the total price per item shall prevail and the Total Amount will be corrected.

24.3 Prior to the detailed evaluation, pursuant to Clause 25, **CESU** will determine the substantial responsiveness of each Bid to the Bidding Documents including production capability and acceptable quality of the materials offered, pursuant to Clause 13. Substantially responsive Bid is one, which conforms to all the terms and conditions of the Bidding Documents without material deviation.

24.4 A Bid determined as not substantially responsive will be rejected by CESU and will not subsequently allowed to be made responsive by the Bidder by correction of the non – conformity.

25 **EVALUATION AND COMPARISON OF BIDS:**

25.1 The evaluation of Bids shall be done basing on the delivered cost competitiveness basis of all items taken together(Cost of SBM & cost of Battery).

25.2 The price evaluation shall be based upon the price quoted for SBM cost having 6 years guarantee and cost of additional 900Nos. of battery within this period.

25.3 Bidders are requested to quote SBM cost having 6 years guarantee considering the cost of mandatory spares(As per Cl.25.4). No separate rates shall be quoted for mandatory spares. Cost of additional 900Nos of battery shall be quoted separately as per the price schedule enclosed at Annexure- V

25.4 **Mandatory Spares:- (To be supplied at the time of delivery of ordered SBMs)**
1) Printer Excluding printer head :- 30Nos.
2) Printer Head :- 30Nos.
3) Display :- 30 Nos.
4) Mother Board including all types of cards :- 30Nos.

25.5 The evaluation of the Bids shall be a stage-wise procedure. The following stages are identified for evaluation purposes:

In the first stage, the Bids would be subject to a responsiveness check as detailed in the clause-24. The Technical Proposals and the Commercial terms & conditions of the Bidders would be evaluated and discussed as per clause-26 of this document.

Subsequently, the Financial Proposals submitted along with the Techno commercially bid shall be considered for evaluation. Supplementary financial proposal submitted by the bidder after due date of opening of part-I bid shall not be considered for evaluation unless otherwise specifically asked by CESU.

25.5 **CESU's evaluation of a Bid will take into account, in addition to the Bid price, the following factors, in the manner and to the extent indicated in this Clause:**

a) Delivery Schedule:
b) Deviations from Bidding Documents as mentioned in Non-Compliance Schedule.
c) Past performance and capability to execute the contract.
d) Test reports from any Govt. approved/ NABL Accredited Lab.

Bidders shall base their Bid price on the terms and conditions specified in the Bidding Documents. The Cost of all quantifiable deviations and omissions from the specification, terms and conditions, specified in Bidding Documents shall be evaluated. CESU will make his own assessment of the cost of any deviation for the purpose of ensuring fair comparison of Bids.

26.0 **AWARD OF CONTRACT:**
In normal circumstances CESU will generally award the Contract to the successful Bidder whose Bid has been determined to be the lowest evaluated responsive Bid, provided further that the Bidder has been determined to be qualified to perform the Contract satisfactory. If the lowest evaluated price (L1) of more than one responsive bidder(s) are same, then in such event the tender quantity shall be awarded in equal proportion.

However, for timely completion of project, CESU may distribute the order among the bidders (maximum three) at L1 rate. In case of distributing between two bidders, the ratio shall be 70% (L1) : 30% (L2) or the quantity offered / quoted by the bidders whichever is less. Similarly in case of distributing among 3 bidders, the ratio shall be 50% (L1) : 30% (L2) : 20% (L3).
In case L2 or L3 bidders does not agree to match the L1 prices, negotiation can be held with other techno-commercially responsive L4, L5 …… bidders in sequence to match L1 price (Landed Cost).

26.1 **CONTACTING CESU:**

26.1.1 From the time of Bid opening to the time of contract award, if any Bidder wishes to contact CESU on any matter related to the Bid, he should do so in writing.

26.1.2 Any effort by a Bidder to influence the CESU and / or in the CESU's decisions in respect of Bid evaluation, Bid comparison or Contract of Award will result in the rejection of the Bidder's Bid.

26.2 **CESU'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS OR TO RELAX ANY TERMS AND CONDITIONS:**

26.2.1 CESU reserves the right to accept or reject any Bid and to annul the Bidding process and reject all Bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the CESU's action.

26.2.2 In the interest of work, CESU reserves the right to relax any terms and conditions without affecting the quality & price of the equipments.

26.3 CESU will award the Contract to the successful Bidder whose Bid has been determined to be the lowest- evaluated responsive Bid, provided further that the Bidder has been determined to be qualified to perform the Contract satisfactorily. CESU at its option/ discretion may split the total quantity to be supplied between two or more Techno- Commercially responsive Bidders in case of the bid prices are same and early delivery is required by the owner.

26.4 **CESU'S RIGHT TO VARY QUANTITIES:**

CESU reserves the right to vary the quantity i.e. increase or decrease the number of materials without any change in terms and conditions at the time of placing the orders or during the execution of the Contract.

26.5 **LETTER OF INTENT / NOTIFICATION OF AWARD:**

26.5.1 The letter of intent / Notification of Award shall be issued to the successful Bidder(s) whose bid(s) have been considered responsive, techno-commercially acceptable and evaluated to be the Lowest (L1). The successful Bidder shall be required to furnish a letter of acceptance **within 7 days** of issue of the letter of intent / Notification of Award by CESU.

27.0 **PERFORMANCE SECURITY:**

27.1 Within 30 days of the receipt of Notification of Award / Letter of Intent from CESU, the successful Bidder shall furnish the Performance Security in the form of Bank Guarantee executed on non-judicial stamp paper worth Rs.100/- (Rupees One hundred only) issued by a Scheduled Bank in favour of CESU encashable at Bhubaneswar only for an amount of 10% (ten percent) of the Contract Price (Full Order value) in accordance with the General Conditions of Contract in the Performance Security Form provided in Section –V of Bidding Documents. The Bank Guarantee shall be valid for a period not less than 90 days over and above the guarantee period.

If the materials are not delivered within the schedule date of delivery, then the Performance Bank Guarantee shall be extended accordingly, considering the actual last date of delivery of all order materials at departmental store. The said extended BG shall be submitted for necessary confirmation & approval.

28. **BUY BACK:**

For equal number of old machines, bidders are requested to quote the buy back price of old SBM Machines separately in the price schedule format. They are allowed to visit stores subdivision, Bhubaneswar as per the time schedule indicated at Clause.4 of section-I. However, before such visit, they may contact Sr.GM(IT), CESU, Mob:- 8895591496 to arrange such inspection. The old SBMs shall be handed over to the successful bidder only after receipt & acceptance of ordered new SBMs at our stores.

29. CORRUPT OR FRAUDULENT PRACTICE:

29.1 CESU requires that the Bidders observe the highest standard of ethics during the procurement and execution of the Project. In pursuance of this policy, CESU:

a) Defines, for the purposes of this provision, the terms set forth below as follows:

(i) "Corrupt practice" means behavior on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves and/ or those close to them, or induce others to do so, by misusing the position in which they are placed, and it includes the offering, giving, receiving, or soliciting of anything of value to influence the action of any such official in the procurement process or in contract execution; and

(ii) "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the CESU, and includes collusive practice amount Bidders (prior to or after Bid submission) designed to establish Bid prices at artificial non-competitive levels and to deprive the CESU of the benefits of free and open competition.

b) Will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practice in competing for the contract in question.

c) Will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded an contract if he at any time determines that the firm is engaged in corrupt or fraudulent practice in competing for, or in executing, the Contract.

29.2 Further more, Bidders shall be aware of the provision stated in the General Terms and Conditions of Contract.

30.0 **LITIGATION HISTORY:**

The Bidder should provide accurate information on any litigation or arbitration resulting on contracts completed or under execution by him over the last three (3) years. A consistent history of awards involving litigation against the Bidder or any Partner of a consortium may result in disqualification of Bid.

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SECTION –III

GENERAL TERMS AND CONDITIONS OF CONTRACT (GTCC)

SECTION – III
GENERAL TRMS AND CONDITIONS OF CONTRACT (GTCC)

1.0 GENERAL INSTRUCTIONS:

1.01 All the Bids shall be prepared and submitted in accordance with these instructions.

1.02 Bidder shall bear all costs associated with the preparation and delivery of its Bid, and CESU will in no case shall be responsible or liable for these costs.

1.03 The Bid should be submitted by the Bidder in whose name the bid document has been issued and under no circumstances it shall be transferred / sold to the other party.

1.04 CESU reserves the right to request for any additional information and also reserves the right to reject the proposal of any Bidder, if in the opinion of CESU, the data in support of Tender requirement is incomplete.

1.05 The Bidder is expected to examine all instructions, forms, terms & conditions and specifications in the Bid Documents. Failure to furnish all information required in the Bid Documents or Submission of a Bid not substantially responsive to the Bid Documents in every respect may result in rejection of the Bid. However, CESU's decision in regard to the responsiveness and rejection of bids shall be final and binding without any obligation, financial or otherwise, on CESU.

2.0 DEFINITION OF TERMS:

2.01 <CESU> shall mean the "Purchaser" on whose behalf this bid enquiry is issued by its authorized representative / officers.

2.02 "Bidder" shall mean the firm who quotes against this bid document issued by CESU. "Contractor / Seller" shall mean the successful Bidder(s) whose bid has been accepted by CESU and shall include his heirs, legal representatives, successors and permitted assigns.

2.03 "Site" shall mean the Electricity Distribution Area of the **<CESU>.**

2.04 "Specification" shall mean collectively all the terms and stipulations contained in those portions of this bid document known as Instruction to Bidder, Bid form and other forms as per Section –V, General Conditions of Contract, Specifications and the Amendments, Revisions, Deletions or Additions, as may be made by the CESU from time to time.

2.05 "Letter of Intent" shall mean the official notice issued by CESU notifying the Contractor that his proposal has been accepted and it shall include amendments thereto, if any, issued by CESU. The "Letter of Intent" issued by the CESU shall be binding on the "Contractor". The date of detailed Purchase Order shall be taken as the effective date of the commencement of contract.

2.06 "Month" shall mean the calendar month and "Day" shall mean the calendar day.

2.07 "Codes and Standards" shall mean all the applicable codes and standards as indicated in the Technical Specification.

2.08 "Offer Sheet" shall mean Bidder's firm offer submitted to CESU in accordance with the specification.

2.09 "Contract" shall mean the "Detailed Purchase Order" issued by the CESU.

2.10 "Contract Price" shall mean the price referred to in the "Detailed Purchase Order".

2.11 "Contract Period" shall mean the period during which the "Contract" shall be executed as agreed between the Contractor and the CESU in the Contract inclusive of extended contract period for reasons beyond the control of the Contractor and / or CESU due to force majeure.

2.12 "Goods/Materials" shall mean all items to be supplied under Purchase Order whether raw materials, processes materials, equipment, fabricated Materials, drawings or other documents as applicable.

2.13 "Store" shall mean the CESU's store as defined elsewhere in this tender document.

2.14 "Project" / "Unit" shall mean supply of Materials as per enclosed technical specification.

3.0 CONTRACT DOCUMENTS & PRIORITY :

3.01 Contract Documents : The Specification, terms and conditions of the contract shall consist solely of these Tender conditions and offer sheet.

3.02 Priority : Should there be any discrepancy between any term hereof and any term of the Offer Sheet, the terms of these tender document shall prevail.

4.0 SCOPE OF WORK:

4.01 The "Scope of Work" shall be on the basis of Bidder's responsibility, completely covering the obligations, responsibility and workmanship, provided in this Bid Enquiry whether implicit or explicit.

4.02 CESU reserves the right to vary the quantity i.e increase or decrease, at the time of placing order or during project execution.

4.03 All relevant drawings, data and instruction manuals and other necessary inputs shall be under the scope of contract.

5.0 GENERAL REQUIREMENTS:

5.01 The seller shall supply, deliver best quality Materials/Equipment & conduct the testing at their works of highest standards.

6.0 The seller shall be responsible & shall comply with the provisions of all statutory acts i.e Electricity Act 2003, Indian Electricity Rules 1956, Income Tax Act-1961.

7.0 INSPECTION & TESTING:

(A) For new Spot Billing Machine along with Impact Printer, the inspection shall be carried out in two stages as follows,

Stage-I:- Pre-dispatch Inspection : Before dispatch, the ordered SBMs shall be inspected by authorized inspectors of CESU in the factory premises of the manufacturer/supplier. During this inspection all acceptance test & routine test shall be carried out in accordance with the provisions of Technical Specification/GTP provided in the Purchase Order/Tender. After successful inspection, the material inspected shall be delivered to the destination stores of CESU.

Stage-II:- Inspection after Delivery: After delivery of materials at stores, required software shall be developed and installed in the delivered SBMs by the supplier in consultation with IT Head, CESU. After installation of software supplied SBMs shall be tested by the authorized inspectors of CESU. Any defect noticed at this stage should be rectified by the supplier free of cost. The supplied SBMs shall be taken into account only after satisfactory testing at this stage.

(B) **Inspection For Additional 900Nos. Batteries to be supplied:-** The inspection shall be carried out after delivery at our destination stores by the authorized inspectors of CESU. The above batteries shall be taken into account only after successful inspection at our stores.

N.B.

i) CESU has the right to have the test carried out at his own cost by an independent agency whenever there is a dispute regarding the quality of supply.

ii) CESU at its discretion may re-test the Materials at its own laboratory or laboratory of his choice for reconfirmation of the test results

iii) Besides the above, CESU reserves the right to conduct pre & post dispatch inspection by engaging third party.

8.0 **TRAINING FACILITIES:**

The Contractor shall provide all possible facilities for training of CESU's Technical personnel, when deputed by CESU for acquiring first hand knowledge in assembly of the equipment and for it's proper operation and maintenance in service.

9.0 **REJECTION OF MATERIALS:**

In the event, any of the materials / equipment supplied by the Contractor is found defective due to faulty design, bad workmanship, bad materials used or otherwise not in conformity with the requirements of the Specification, CESU shall either reject the materials / equipment or ask the Contractor in writing to rectify the same. The Contractor on receipt of such notification shall either rectify or replace the defective equipment free of cost to CESU. If the Contractor fails to do so, CESU may :

a) At its option replace or rectify such defective equipment and recover the extra costs so involved from the Contractor plus fifteen percent and / or.

b) Terminate the contract for balance work / supplies with enforcement of penalty Clause as per contract for the un-delivered materials and with forfeiture of Performance Guarantee/ Composite Bank Guarantee.

c) Acquire the defective equipment / materials at reduced price considered equitable under the circumstances.

10.0 EXPERIENCE OF BIDDERS :

10.1 The bidders should furnish information regarding experience particularly on the following points :

i) Name of the manufacturer :
ii) Standing of the firm and manufacture of equipment quoted :
iii) Description of equipment similar to the quoted, supplied and installed during the last 3 (three) years with the name (s) of the party (s) to whom supplies were made.
iv) Details as to where installed etc.
v) Testing facilities at manufacturer's work with copies of calibrated certificates of the major testing equipment.

vi) If the manufacturer is having collaboration with other firm(s), details regarding the same:
vii) A list of Purchase orders, executed during the last three years along with user's certificate and copies of Purchase orders.

10.2 Bids may not be considered if the past manufacturing experience is found to be un-satisfactory as mentioned under clause –6 of the IFB.

11.0 **LANGUAGE AND MEASURES :**

All documents pertaining to the contract including Specifications, Schedule, Notice, Correspondence, Operating & Maintenance instructions, Drawings or any other writing shall be written in English language. The metric system of measurement shall be used exclusively in this contract.

12.0 DEVIATION FROM SPECIFICATION :

It is in the interest of the Tenderers to study the Specification, drawing etc. specified in the tender document thoroughly before tendering so that, if any deviations are made by the Tenderers, the same are prominently brought out on a separate sheet in the Technical & Commercial Deviation Formats enclosed at Annexure VI (A) & VI (B) in this document. Deviation mentioned in any other format or any other part of the offer document shall not be considered as a deviation & in such case it will be presumed that the bidder has accepted all the conditions, stipulated in the tender Specification, notwithstanding any exemptions mentioned therein.

13.0 PRICE BASIS:

13.01(a) Bidder shall quote "**FIRM**" price.

The breakup of prices shall indicate all types of taxes, Duties and other Levies of whatsoever nature indicated separately and clearly, packing & forwarding, transportation to store including transit insurances and entry tax. Exemption from any duties/taxes, if any, shall be supported with relevant documentary evidence.

(b) The above Prices shall also include loading at factory site & unloading at CESU's Stores. Price evaluation will be based on total landing cost, taking into account all taxes and duties.

14.0 TERMS OF PAYMENT:

14.1 **FOR SBMs:-** 100 % value of SBMs with its mandatory spares shall be paid within 30 days of receipt of materials in Good conditions at stores / desired destination and verification there of subject to approval of the Guarantee certificates , Test Certificates , successful integration of software certificate from IT Head and acceptance of Performance Bank Guarantee equivalent to 10 % of Total Contract Price which includes cost of SBM (including mandatory spares) and cost of additional battery on non-judicial stamp paper worth Rs.100 in the prescribed format from a Scheduled Bank encashable at Bhubaneswar only.

Or else an equivalent amount of 10 % of the Total Contract Price shall be deducted from the invoice of the first consignment & the same shall be refunded after approval of the required Performance Bank Guarantee or expiry of Guarantee Period which ever is earlier.

14.2 **FOR BATTERY:-** 100 % value of additional Batteries of each consignment shall be paid within 30 days of receipt of batteries in Good conditions at stores / desired destination and verification there of subject to approval of the Guarantee certificates & Test Certificates.

14.3 **PAYING OFFICER:**

The Divisional Manager , Electrical Stores Division, CESU, Cuttack 0671- 2334228) shall be the paying officer. He shall issue the required documents to the firm on request.

15.0 PRICE VALIDITY:

15.01 All bids submitted shall remain valid, firm and subject to unconditional acceptance by CESU for 180 days post bid-date. For award of Contract, the prices shall remain valid and firm till contract completion.

16.0 GUARANTEE:

16.01 **(A) FOR SPOT BILLING MACHINES (SBMS) WITH IMPACT PRINTER: The bidder shall guarantee for satisfactory operation of the equipment for a minimum period of 72 months from the date of last supply of the materials/equipments in good condition.** In the event of any defect in the equipment/ materials arising out of faulty design, inferior quality of raw material used or bad workmanship within the guarantee period, the Seller shall guarantee to replace/ repair to the satisfaction of the CESU the defective equipments free of cost. Should however, the manufacturer fails to do so within a reasonable time, CESU reserves the right to recover the amount from the seller either from the bills pending or may recover from the Performance Guarantee submitted by the firm. **Bidder shall submit a Performance Bank Guarantee in favour of the CESU as per Clause No.27.0 of Section-II(ITB).**

(B) FOR BATTERY:- The bidder shall guarantee for satisfactory operation of the battery for a minimum period of 18 months from the date of last supply of the materials/equipments in good condition. In the event of any defect in the equipment/ materials arising out of faulty design, inferior quality of raw material used or bad workmanship within the guarantee period, the Seller shall guarantee to replace to the satisfaction of the CESU the defective batteries free of cost. Should however, the manufacturer fails to do so within a reasonable time, CESU reserves the right to recover the amount from the seller either from the bills pending or may recover from the Performance Guarantee submitted by the firm.

16.02 If during the defect liability period any services performed found to be defective, these shall

be promptly rectified by seller at its own cost (including the cost of dismantling and reinstallation) on the instruction of CESU.

16.03 It is the responsibility of the bidder to ensure proper seal on each & every machine within the 6 years of guarantee period

17.0 RELEASE:

The seller's Performance Bank Guarantees will be released without interest within thirty (30) days from the last date up to which the Performance Bank Guarantee has to be kept valid (as defined in Clause 16.01).

18.0 TECHNICAL INFORMATION / DATA:

CESU and the Contractor, to the extent of their respective rights permitting to do so, shall exchange such technical information and data as is reasonably required by each party to perform its obligations and responsibilities. The CESU and the Contractor agree to keep each other in confidence and to use the same degree of care as he uses with respect to his own proprietary data to prevent its disclosure to third parties of all technical and confidential information. The technical information, drawings, records and other document shall not be copied, transferred, traced or divulged and / or disclosed to third party in full / part nor misused in any other form. This technical information, drawing etc. shall be returned to the CESU with all approved copies and duplicates. In the event of any breach of this Contract, the Contractor shall indemnify the CESU against any loss, cost of damages of claim by any party in respect of such breach.

19.0 **EFFECTIVE DATE OF COMMENCEMENT OF CONTRACT :**

19.01 The date of the issue of the detailed Purchase order shall be treated as the effective date of the commencement of Contract.

20.0 The bidder shall quote the basic price as well as all taxes & duties as per the enclosed format for bid prices.

21.0 PENALTY:

21.01 If supply of items / equipments is delayed beyond the supply schedule as stipulated in Purchase order, then the seller shall be liable to pay to the CESU as penalty for delay, a sum of 0.5% (half percent) of the contract price for every week delay or part thereof.

21.02 The total amount of penalty for delay under the contract will be subject to a maximum of five percent (5%) of the contract price.

21.03 The CESU may, without prejudice to any method of recovery, deduct the amount for such damages from any amount due or which may become due to the seller or from the Performance Bank Guarantee or file a claim against the seller.

22. VALIDITY OF THE ORDER:

The Order is valid for 10 weeks beyond the schedule date of delivery for each item, unless otherwise extended by the Competent Authority. The Order shall stand cancelled automatically beyond the validity period without any correspondences and liabilities to the CESU.

23. PACKING :

The Materials/Equipments shall be packed by the seller suitably as per the standard procedure for safe transport to the site / store. The cases shall be clearly marked showing distinctly the name and address of the consignee. In case of special instructions, such as" this end up", "fragile", "handles with care" etc., the same shall be clearly displayed on the cases.

24. COMMISSIONING SPARES :

The sellers shall replace, free of cost, any spares which may be found defective by the buyer during commissioning.

25.0 DISPUTE RESOLUTION AND JURISDICTION OF CONTRACT :

25.01 For the purpose of dispute resolution this agreement shall be governed by the provision of Arbitration and Conciliation Act, 1996.

25.02 All disputes shall be subject to exclusive jurisdiction of the Court at Bhubaneswar and Writ Jurisdiction of Hon'ble High Court of Odisha at Cuttack.

26.0 EVENTS OF DEFAULT:

26.1 Events of Default. Each of the following events or occurrences shall constitute an event of default ("Event of Default") under the Contract :

(a) Seller fails or refuses to pay any amount due under the Contracts.

(b) Seller fails or refuses to deliver Commodities conforming to his Bid document/ specifications, or fails to deliver Commodities and, or execute the works assigned to them within the period specified in P.O or any extension thereof.

(c) Seller becomes insolvent or unable to pay its debts when due, or commits any act of bankruptcy, such as filing any petition in any bankruptcy, winding-up or reorganization proceeding, or acknowledges in writing its insolvency or inability to pay its debts; or the Seller's creditors file any petition relating to bankruptcy of Seller;

(d) Seller otherwise fails or refuses to perform or observe any term or condition of the Contract and such failure is not remediable or, if remediable, continues for a period of 30 days after receipt by the Seller of notice of such failure from CESU.

27.0 CONSEQUENCES OF DEFAULT:

(a) If an Event of Default occurs and would be continuing, CESU may forthwith terminate the Contract by written notice.

In the Event of Default, CESU may, without prejudice to any other right granted to it by law, or the Contract, take any or all of the following actions;

i) present for payment, to the relevant bank the Contract Performance Bank Guarantee;

ii) Recover any losses and / or additional expenses, CESU may incur as a result of Seller's default.

28.0 FORCE MAJEURE:

28.01 The term "Force Majeure" as employed herein include, acts of God or force of nature, landslide, earthquake, flood, fire, lightning, explosion, major storm (hurricane, typhoon, cyclone etc.) or major storm warning, tidal wave, shipwreck and perils of navigation, act of war (declared or undeclared) or public enemy, strike (excluding employee strikes, lockouts or other industrial disputes or action solely among employee of Contractor or its subcontractors) act or omission of Sovereign States or those purporting to represent Sovereign States, blockade, embargo, quarantine, public disorder, sabotage, accident or similar events beyond the control of the parties or either of them.

Force Majeure shall not include occurrences as follows :

Late delivery of materials caused by congestion of Seller's facilities or elsewhere, and oversold condition of the market, inefficiencies, or similar occurrences.

Late performance by Seller and / or Sub-Seller caused by unavailability of raw materials, supervisors or labour, inefficiencies of similar occurrences.

Mechanical breakdown of any item of Seller's or its Sub-Seller's equipment, plant or machinery.

Delays due to ordinary storm or inclement weather or

Non-conformance by Sub-Seller.

Unless the delay arises out of a Force Majeure occurrence and is beyond both Seller's and Sub-Seller's or Seller's control and an alternate acceptable source of services, equipment or material is unavailable . Additionally, Force Majeure shall not include financial distress of Seller or any Sub-Seller.

28.02 In the event of either party being rendered unable by Force Majeure to perform any obligation required to be performed by them under the Contract, the relative obligation of the party affected by such Force Majeure shall be suspended for the period during which such cause lasts. Time for performance of the relative obligation suspended by Force Majeure shall then stand extended by the period for which the cause lasts.

28.03 Upon the occurrence of any Force Majeure event, the party so affected in the discharge of its obligation shall promptly, but no later than seven (7) days give written notice of such even to the other party. The affected party shall make every reasonable effort to remove or remedy the cause of such Force majeure or mitigate its effect as quickly as possible. If such occurrence results in the suspension of all or part of the work for a continuous period of more than 10(ten) days, the parties shall meet and determine the measures to be taken.

28.04 Any delay or failure in performance by either party hereto shall not give rise to any claims for damages or loss of anticipated profits if and to the extent, such delay or failure is caused by Force Majeure.

29 NAME PLATE MARKING:

29.1 All the equipments and materials supplied with name plate marking as provided under Clause No.26 of Section-IV (Technical Specification)

30 **AFTER SALE SERVICE:**

The bidder will keep sufficient nos ready spare machines loaded with CESU software at their local service center at Bhubaneswar, for immediate replacement of the defunct SBMs. The nos of spare machines to be decided by the bidder considering as a percentage of failure from the past experience so that CESU never suffers from delay in taking meter readings.

30.1 **SERVICE SUPPORT:**

The Bidder will assign an authorized service engineer for CESU's service center as and when required for perform repairing of the defunct SBM's. The vendor will ensure that all the defective SBM shall be repaired within 3 days from the date of receipt of the same.

31 **INSURANCE:**

As the materials are to be delivered at our stores, the goods in transit may be insured with the bidders own insurance underwriter at their cost and risk. CESU will be no way responsible for any trouble to be arrived on this account with the Insurance Company or their transporters. However, necessary shortage or breakage certificate will be made available to you by the consignee within thirty days of receipt of equipments.

32 **FREE REPLACEMENT:**

Free replacement for loss or damage of materials during transit shall be made by you immediately on receipt of information from the consignee without waiting for settlement of your claim with your transporters/ Insurance Company.

33 **SOFTWARE SUPPORT:**

The vendor will develop the Spot Billing Software application free of cost as per the Software Requirement Specifications (SRS) details mentioned at Section-IV(Technical Specification). The vendor will also give software support for any minor modification in the software due to tariff changes or any other billing related changes etc. as and when required during 72 months Guarantee Period .

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SECTION –IV

TECHNICAL SPECIFICATION

FOR

SPOT BILLING MACHINES

SECTION - IV

TECHNICAL FUNCTIONALITIES OF SPOT BILLING MACHINES

1.0 Scope of Supply:

i) "This specification covers the design, manufacture, testing before dispatch supply and delivery of SBM having impact printer for Spot Billing and Spot Collection simultaneously in a single SBM. Spot Billing refers to Regular Billing based on Meter reading, adhoc billing like meter installation billing, penal billing etc. and similarly, spot collection should be available for the above mentioned billing. Additionally, the SBM should also be capable of raising trouble tickets on demand. The SBM should be capable of providing the customers a printed receipt/ bill the above mentioned functions."

ii) The SBM shall be supplied with all necessary accessories like communication cables, power cables, rechargeable batteries, battery charger, carrying case etc.

iii) "The bidder shall furnish a copy of detailed operating and troubleshooting manual along with each of SBM. The manual shall be with all details like syntax of language used on the SBM, libraries used, functions, mechanical details, features available etc. The copy should be available in both Hard copy and soft copy format."

iv) "The bidder shall be responsible for all the software modification during the operation period on the account of software / hardware malfunction fixation, tariff change, category redefinition, business rule change and change in CESU billing & collection software modification promptly and with the time frame specified by the owner for the purpose. Sometimes, the bidder may require deputing their technical team at CESU Headquarter, Bhubaneswar for modification, testing and implementation purpose."

v) "The bidder shall provide the owner the compilers used if necessary for building the software for the supplied SBM."

vi) "The bidder shall ensure that the supplied SBMs' inbuilt printer uses Impact Printing Technology with non-erasable ink which is available and procurable from various vendors in Indian market".

2.0 Standards Applicable:

1) This is a functional specification and it is the responsibility of the bidder to design the equipment and furnish full details along with tender to evaluate the offer. (The equipment shall conform to IS/IEC/CBIP and any other relevant standards for satisfactory functioning without any trouble in the field).

2) Unless otherwise specified elsewhere in this specification the SBM shall conform to the latest version available of the standard as specified above.

3) Compliance to IEC 61000-4-2,Level3,IEC 61000-4-3,IEC61000-4-4,IEC 61000-4-5,IEC 61000-4-6, IEC 61000-4-8,IEC 61000-4-9 all level 4

4) It is not the intent to specify completely herein all the details of the design & construction of material. However the product shall conform in all respects to high standards of Engineering, Design & Workmanship & shall be performing in continuous commercial operation in manner acceptable to the purchaser.

3.0 Material Used:

The equipment shall be made out of high quality materials to ensure higher reliability and longer life. It should be compact and of reliable design to make it immune to vibration and shock in normal transportation and should be capable of withstanding severest stresses likely to occur in actual service.

4.0 Service Conditions

The equipment / materials offered will be entirely satisfactory for operation under the climatic conditions indicated below:

(a) Maximum ambient air temperature (in shade): 45^0 C
(b) Maximum ambient air temperature (under sun) : 55^0 C
(c) Maximum daily average ambient air temperature: 40^0 C
(d) Maximum yearly average ambient air temperature: 40^0 C

(e) Maximum humidity: 95%
(f) Altitude above M.S.L.: Up to 1000M

(g) Average No. of thunder storm days per annum: 50
(h) Average No. of rainy days / annum: 90
(i) Average Annual Rain fall: 750mm
(j) Normal tropical monsoon period: 4 months

The overall climatic condition is moderately hot and humid tropical climate, conducive to rust and fungus growth.

5.0 Technical Requirements:

a) Spot Billing Machines (SBM) with high speed CPU capable of floating point arithmetic and built in Impact printer with 24-32 columns attached to SBM so that SBM and printer can be used as single unit. The printer is to be operated with roll of width not less than 57 mm for Impact printer. The impact printer shall be alphanumeric & high speed (2.7 lines/Sec).

b) The SBM should be of duty cycle of producing 250 - 500 spot bills a day (each bill of length about 30 cms.).

c) The SBM shall be capable of communicating with RS 232 or any serial port for

   i) Transfer of data from/to SBM to/from MS-Windows / DOS/Open Source O.S. Based Desktop and vice-versa.

   ii) Transfer of operating system, driver's application software or any other software from a MS-Windows / Open Source O.S based desktop to SBM.

d) Additional port similar to above to be used as standby.

e) The SBM shall be suitable to be carried in hand from one meter installation to the next in order to download / upload data from / to static / electronic meters of different make, having communication facilities with adequate data security and facility of fraud detection but without interfering performance of the metering system.

f) The SBM shall also be suitable for data entry through keyboards of SBM for spot billing purpose. The SBM shall also be used as data logger for storing, retrieving and printing data.

g) The SBM shall be with user friendly menus with features close to normal PCs.

h) The SBM should be enclosed in good casing with shoulder belt with a suitable holding strap for proper gripping and should be capable of operating satisfactorily at all temperatures 5-50^0C and at all weather conditions in Odisha and it should be weather proof.

i) All insulating material used in the construction of the SBM shall be non hygroscopic, non-aging and of tested quality.

j) The SBM Printer shall use Paper Roll width Approx. 55 to 60 mm, 60 GSM roll, Dia: 70 mm & about 40 meters length.

k) The SBM shall be of GPRS compatible.

l) The SBM should also be capable of running web enabled Billing/Collection application.

m) The SBM should boot within 60 seconds.

n) The SBM shall be designed and constructed in such a way as to avoid introducing any danger in use and under normal conditions so as to ensure specially

a) Personnel safety against electric shock

b) Personnel safety against effects of excessive temperature.

c) Protection against spread of fire.

d) Protection against penetration of solid objects, dust & water.

6.0 Size and Weight of SBM

The SBM shall have to be handy, light weight and small in size for the ease of portability. The weight of the SBM with printer including batteries shall not be more than 1 kilogram.

7.0 Enclosure

The casing shall be electrically insulating, high thermal & mechanical stability and chemical solvent resistant. All parts, which are subject to corrosion under normal working conditions, shall be protected effectively. Any protective coating shall not be liable to damage by ordinary handling or damage due to exposure to air, under normal working conditions. SBM shall withstand solar radiation.

8.0 Display

i. The SBM shall have LCD having High-Clarity 128 x 64 Pixels Graphic Display better with Backlight. The LCD should be bright. The minimum character height shall be 4 mm.

ii. The display module shall be well protected from the external radiations.

iii. The LCD shall have easy readability in varying ambient light conditions.

iv. It shall be possible to adjust the contrast and the brightness of the LCD to have better readability in all ambient conditions.

v. The display shall be with user friendly menus.

9.0 Keyboard

The key board shall have following attributes.

a) 6 x 5 dust, water proof keypad (minimum 30 keys) membrane & any alphanumeric character shall be available with sequential operation of maximum three keys

b) Long operational life of more than 1,000,000 operations

c) Feedback for key press acknowledgement to user.

d) Legible and non-fading key pad imprints for al alpha numeric characters / symbols.

e) Key board with 0-9 numbers, all alphabets (usable with shift key if necessary) function keys and keys for normal functions like 'ESC', 'SPACE', 'BACKSPACE', etc.

10.0 Memory

8.6 "Separate programme memory of atleast 64 MB SDRAM, 256 MB Flash ROM Memory (extendable up to 2 GB if required) (BIOS, DOS, COMMUNICATION and SETUP) capable of holding operating systems of hand held SBM devices and application software".

8.7 "Memory / data pack of atleast 1 GB effective meant for storing data.

8.8 The SBM shall have provision for add on data memory.

11.0 Real Time Clock (RTC)

a) The SBM offered should have a real time clock based on a quartz crystal with a battery totally independent of power supply

b) Suitable clock with speed not less than 15 MHz.

c) RTC with internal lithium (or equivalent) battery for about 10 years backup.

d) It shall be possible to synchronize the time of the SBM and Base Computer Station.

12.0 Power Supply (Battery)

The SBM should have the following features for its power requirements:

(a) The SBM should be powered by built-in rechargeable Li-Ion battery housed within its enclosure or equivalent to give operation (with minimum 2000 mAH, Capacity) for 8 hrs.

(b) The average capacity of charged battery will be sufficient to generate 200 bills.

(c) The average capacity of charged battery will be sufficient to communicate with meters and base computer station for at-least :

i) 4 hours while communicating through optical interface of meters and

ii) 6 hours without powering Input / Output ports for optical interface.

(d) To reduce the equipment down time and inventories, there will be provision to charge the SBM battery without being removed from the equipment. A suitable battery charger with input voltage 90-220 V for charging of SBM battery shall be provided.

(e) There should be provision for Auto Power Save, which force the instrument in the power saving mode in case of no activity.

(f) The battery used for data retention should have a minimum of 3 years backup capacity.

(g) The SBM shall have battery charge level indication with audible low battery indication and automatic cut-off to avoid further drain of the battery.

(h) SBM will have facility of trickle-charging

(i) Fast & Intelligent charging with maximum of 3 hrs.

(j) Low battery & Full Battery indications.

13.0 Input / Output Ports

13.1 SBM shall have 1xRS232 serial port, 2x USB Port (One Master / HOST port), 1x LAN (RJ45 connector), 1xMicro SD Card interface, Optical/RF/IR & GPRS. The SBM shall have capability to interface with barcode readers, battery charger etc.

13.2 The SBM shall have provision to provide power supply to optical sensor used for meter reading application.

14.0 provision for Interfaces between Meter and SBM

11.2 The interface between a meter and SBM should be with a flexible shielded cable of length more than 1400 mm having suitable connector with electrical circuit.

11.3 The two ends of the cable shall be stress relieved.

11.4 This cable shall be supplied along with the SBM.

15.0 Interfaces between SBM and Base Computer Station

1.1 The interface between a SBM & computer should be with a flexible shielded cable of length more than 1400 mm having suitable connector with electrical circuit.

1.2 The two ends of the cable shall be stress relieved.

1.3 This cable shall be supplied along with the SBM.

16.0 Communication

- The SBM shall be required to communicate

a) For downloading / uploading data from / to Meter

b) For uploading / downloading data to / from Base Computer Station

c) For Manual entry of data into the SBM

- The SBM shall have portable printer and shall be able to print the data in a prescribed format.
- The SBM shall have flexible baud rate ranging 300 Baud to 115200 Baud, 115 K or 57,500-baud rate from SBM to PC & PC to SBM from and optionally to higher baud rate so as to cater other communication needs.
- The SBM supplier would ensure that the data extracted from the meters using manufacturer specific algorithms in the software up to downloading to the BCS remains secure during the process.
- USB - High speed USB 2.0/3.0 host/device
- The SBM's shall have GPRS facilities with TCP/IP communication Protocol and with Antenna for data transferring to the central server.

17.0 System Performance:

- The system should respond to data transfer and other database queries within reasonable time. The vendor shall conform the time required to download data from various meters manufactures.
- The SBM shall have various degree of access through password for system operation and configuration.
- The SBM shall have an auto-reconfiguring system on power on/off.

b) Self-Diagnostic Features:

5.1 Indications to show the satisfactory performance of the SBM should be provided. There should be a defined diagnostic cycle, for instance, during start up and shut down, and if some malfunctioning occurs, the SBM shall display the malfunctioning of the SBM. The supplier should furnish the details of the self-diagnostic features.

5.2 The meter shall have internal diagnosis feature to monitor micro control functions to ensure integrity of data and to prevent loss of any data.

19.0 Processor & PC compatibility

High Speed 32 bit Processor with Minimum 72 MHz speed. The SBM must be PC compatible and run latest MS-DOS Version/Linux/windows/Unix OS or higher with at least versions/editions. The Facility to upgrade the BIOS/OS shall be available without exposing the hardware of the SBM. The additional program necessary to transfer application programs with USB port shall be provided.

20.0 Test Reports:

The equipment offered (i.e. SBM) shall be fully tested at any independent test laboratory by the as per the latest version of the relevant specification and valid test reports shall accompany the bid failing which the bid will be liable for rejection.

The following test reports shall be supplied.

(a) 5^0 - 50^0C temp. Cycle test (dry heat and cold test)

(b) Vibration test as per standard specification applicable.

(c) Shock test as per standard specification applicable.

(d) EMI / EMC test (if applicable)

(e) Radio interference measurement as per standard specification applicable.

(f) Tests of protection against penetration of dust and water as per IS:12063

(g) Damp Heat Cyclic Test as per IS 9000

(h) Free Fall Tests as per IS 9000

(i) Testing parameters of samples shall also compliance with attached GTP.

21.0 Sample

One sample of offered SBM with application software, offered printer and communication cables along with the test reports shall be submitted along with the offer.

22.0 Acceptance Tests and Routine Tests:

All the acceptance tests stipulated in the relevant standard and specification shall be carried out by the supplier in the presence of the purchaser's representative as per the testing parameters as mentioned in the GTP.

b) Quality Control and Inspection:

c) The manufacturer shall have a well-organized Quality Assurance Program (QAP) based on ISO 9000 Series to assure that items and services comply with this specification.

d) All design, manufacturing, processing, testing and inspection operations affecting the equipment or material shall be governed by Quality Assurance procedures in accordance with the directives of the ISO 9001 standards.

24.0 Manufacturing Facilities:

12.2. It is desirable that the bidder should have in-house facilities for manufacturing of the materials. In case some of the above items are bought out, the bidder should furnish detailed list of such items and also indicate the name and address of the firms. The bidder should also give the details of quality assurance procedures followed by him for these items.

12.3. The sample supplied may be tested for evaluation by 3rd party or any other organization if desired by CESU Management.

25.0 Drawings, Leaflets & Descriptive Literature:

Manufacturers Drawings, Literature shall be such that they should fully illustrate the details of the equipment offered.

26.0 Nameplate Marking:

The Nameplate shall be clearly marked / etched / embossed. The nameplate shall indicate purchaser's name, purchase order number, date, month and year of manufacture, serial No. etc. The word "CESU" must be marked / etched / embossed on the nameplate. The words "72 months Warranty" should also be marked / etched / embossed on the nameplate. There is possibility to enhance the functionality of software by adding additional features. The software should be such that it can be added with such feature. The name plate shall fix rigidly in such a way that it cannot be detached & letter shall be indelible.

GIST OF TECHNICAL SPECIFICATION

Sl No	Item	Description	Requirement Parameters
1	General Information	Name of the Bidder	
2		SBM Type	
3		SBM Model	
4	Standards Applicable	IS/IEC/CBIP and any other relevant standards	IS/IEC/CBIP and any other relevant standards
5		Furnishing Type Tested Report	Type Tested Report
6		Furnishing Trouble Shooting Manual/Operating Manual	Furnishing Trouble Shooting Manual/Operating Manual
7	Physical Characteristics	Size (LX H X D mm3):	Small size and handy
8		Weight (Kgs) :	Less than 1 KG
9		Ruggedness:	tested quality
10	Operating Conditions	Operating temperature range:	5-50 Degree Celsius
11		Storage temperature range:	0-40 Degree Celsius
12		Humidity:	Max. 95%/750 mm
13	General Technical Requirements	SBM Printer size:	24-32 columns,57 mm or more (2.7 lines/sec)
14		Type of Printer	Impact
15		Printer operated with paper Roll Size	Not less than 57 mm, Dia 70 mm & 40 mtrs length
16		Capable of Printing	BARCODES (in case of Thermal Printing)
17		Printing time of single bill (Approx. 30 cm)	Less than 40 seconds
18		Booting Time	Less than 60 seconds
19	Enclosures	Degree of Protection:	high resistant of thermal/chemical/thermal/solar/radio
20		Material:	Non-hygroscopic, non-aging and of tested quality
21		Suitability of the material used :	Resistant proof
22	Display	Type of display (Graphical):	High-Clarity LCD 128 x 64 Pixels Graphic Display
23		Size:	character height 4 mm minimum
24		Resolution:	High
25		Back light:	Adjustable
26		Brightness and Contrast control:	Adjustable
27		Details of data to be displayed:	User friendly menu
28	Key Board	Type of keyboard:	Button Based
29		No of keys:	Minimum 30 keys, Legible and non-feeding Key Pad imprints all alphanumeric characters & Symbols.
30		Operational life:	more than 1,000,000 operations
31		Key press acknowledgment:	Feedback
32	Input / output ports	No of ports:	Minimum 5
33		Port details:	1xRS232 serial port, 2x USB Port (One Master / HOST port), 1x LAN (RJ45 connector), 1xMicro SD Card interface, Optical/RF/IR
34	Physical	Type of cable:	Flexible ,Shielded cable

Sl No	Item	Description	Requirement Parameters
35	Interface	Length:	1400 mm minimum
36	Communication	With Meter:	With Suitable port
37		With Base Computer Station:	i) Flexible shield cable of length 1400 mm with suitable connector with electrical circuit ii)Utility software for transfer of data / software from/to Windows / DOS / Open Source O.S based desktop to/from Spot Billing Machines
38		Communication Speed:	115 k to 57500 Baud rate or more
39		GPRS/GSM facility for data transmitting from SBM to Server & Server to SBM	with TCP/IP communication Protocol and With Antenna
40		Data security and integrity features:	Multi-level Password
41	System Performance	Time required to download data from meters incase of IR/RF communication	Reasonable time
42		Access security features:	Multi-level Password
43	Operating System of SBM	Name:	MS-Windows/Dos/Linux/ Unix/Open Source
44		Booting Time:	less than 1 minute
45	Memory	Flash RAM:	256 MB minimum
46		EXTERNAL:	Minimum 1 GB
47		Upgradeable:	Upto 8 GB
48	Real Time Clock	Type:	Quartz Crystal type & independent of power supply
49		Type of battery used for RTC:	Li-on/other
50		Life of the battery:	Minimum 10 years back up
51		Time synchronization with BCS:	Synchronized
52	Power Supply (Battery)	Type of battery:	Li-on(rechargeable)
53		Capacity (MAH) :	Minimum 2000 MAh
54		Auto power saving feature:	Within 5 minutes
55		Data retention period:	Minimum 3 years
56		Indicators for Battery condition:	Charge level indication with Audible low battery indication and automatic cut off
57		Provision for trickle charging:	Maximum 3 hrs
58	Safety	Shook Proof	
58		Excessive Temperature proof	
60		Fire Proof	
61		Water/Dust Proof	

SPECIFICATION & IMPLEMENTATION OF SPOT BILLING SOFTWARE

1.0 Software

(i) Integration & customization of SBM billing software according to the prevailing tariff code & supply code specified by the OERC (Odisha Electricity Regulatory Commission) under guidance and supervision of CESU technical team within Two Months of delivery of the material/equipment (SBM).

(ii) The interface design / development / customization shall be done in close co-ordination / guidance and supervision of CESU technical team to meet the owner operational and security requirement.

(iii) The following are the sample copy of user required specification for developing the application software, to be loaded on a Spot Billing Machines (SBM) for carrying out Spot Billing. The following activities which are to be menu driven are to be enabled on SBM.

a) Loading master data from desktop to hand held computer.

b) Billing process and printing the bill.

c) Bill Generation.

d) Generation of Bill Receipt.

e) Uploading data of billed customers from hand held computer to Personal Computer / Server through GPRS/GSM and through cable USB/RS232.

a) The SBM should supply with utility software for transfer of data / software from/to Windows / DOS / Open Source O.S based desktop to/from Spot Billing Machines. This utility software should work on desktop with Windows operating system (including Windows 10)/ Open Source O.S /Linux. The software of this tool should be valid and with proper license to use offered number of SBM. Soft copy of such software shall be supplied with license certificate.

b) Data transferred from / to SBM to / from base computer (desktop) shall be in the form of flat (text format/ any format as specified by CESU) files.

c) The upload and download of SBM with data shall be selective. That is, selected records through any criteria only be downloadable from/to SBM to/from desktop.

Example: Data of 500 customers who are to be billed and loaded onto SBM. But out of these 500 customers only 100 are billed. But out of these 100 nos., records of 50 consumers were already down loaded. The billed data of the remaining 50 billed customers only shall be transferable from SBM to desktop without disturbing data of other customers.

Transfer of data from SBM to Server through GSM/GPRS

The SBM shall have the capability to collect and store meter readings, time of meter reading, route etc. and should be capable of calculating / generating and printing the bills correctly. Concurrently, it should store/ update billing information at the designated remote server of CESU in online real time mode (AUTO) or manually by accessing through special menus of software.

Functionalities

- GSM /GPRS in-built multi -band/ CDMA modem to connect to remote central server from meter readings being carried-out in field.
- The Device should provide sufficient "OFFLINE" working capability so that any unforeseen or unexpected break in internet connectivity does not

adversely affect the billing software.

- Device must store billing as well as billed DATA until synchronization with the remote server.
- The application software should have facilities of downloading & uploading the data between DATABASE in the remote server and SBM with option of synchronisation in ONLINE as well as OFFLINE mode.
- The SBM application software shall connect to Remote server through internet / GPRS connectivity and send required billing parameters to the server. Bill calculation is to be carried out at the SBM side and data to be transmitted to the Server. In the absence of internet / GPRS connectivity the bill calculations and printing should be carried-out by SBM in standalone (OFFLINE) mode and as and when connectivity becomes available, Billed data from SBM should be transmitted to the server. The Application software at the server side should have the capability to re-check the offline data sent by SBM, for software version, bill calculated elements etc. and if any ambiguity found should store in event logs, for analysis.
- Exception handling and Report Generation for recorded exceptions.
- SBM should have both online & offline connectivity as well as batch process capability for transmitting the data from the SBM to the remote Server.
- SBM should have full IP protocol stack support to facilitate the data transfer from the terminal to the remote Server in any form of standard TCP/IP, HTTP(S) & (S)FTP etc.

d) Provision should be available for checking the data on SBM and identity.

i) Master (input) data records of customers who are yet to be billed.

ii) Billed data (output) records of customers who are billed.

iii) Billed (output) data records of customers who were already billed and which are already downloaded from SBM to desktop.

e) Provision should be available to add additional records of customers to the existing records at any stage.

Example:

i) Records of 1000 customers are loaded on the SBM.

ii) Out of these 1000 Nos. 500 customers were billed and their data was updated.

iii) Out of these 500 records of customers who have already billed 300 records were downloaded to desktop/Server from SBM. At this stage it should be possible to add 500 more records of additional customers who are yet to be billed.

f) Performance timing of SBM to be optimized as per given parameters

i) Printing of the bill (single copy) - within 40 sec.

ii) Searching of consumers - within 2 sec

iii) Navigation in SBM Software- optimized at the least time

g) The bidder should supply SBM along with application software (executable & Source Code) & compiler (if it is not platform independent). The application software should be supplied with clear documentation of all details. All the processes involved should be explained through Source code. The following should necessarily accompany the quotation.

1) Hard copy of source code application software.

2) Soft copy of (floppy or any other media) of application software.

3) Soft copy of pseudo code/Source Code & Executable Code of application software.

4) The required compiler to compile application if needed.

5) The software professional of the Vendor should explain all the details of application software step-by-step.

h) The application software is to be in "C","Java" or any other 3-GL or higher. The application software for Spot Billing is developable on any desktop system (PC) with Windows operating system / Open Source O.S. and the executable so formed shall be transferable to SBM. If the language of the application software for Spot Billing / Spot Collection is not in any standard 3 GL or higher, then the offer shall include the following.

i) Manual for such language.

ii) Licensed compiler (One license hard copy and one copy of media with valid document of license)

(iv) Software should be GSM/GPRS enabled with an option for Offline/Online.

(v) In case of corruption of SBM's operating systems, facility to be provided for loading the operating system into those SBMs. Further, the vendor should ensure to prevent such kind of corruption of SBM's OS.

(vi) Software should provide a daily billing/collection summary as well as an Overall Summary Report with total number of services loaded into the unit, services billed / unbilled, amount collected, total amount billed etc.

(vii) The software shall provide 3 levels of Password Protection - (1) Super Admin for Loading of Operating System & billing software (2)Supervisory level for functions for upload, download, time setting and other related supervisor related functions; and (3) Meter Reader/Bill Collector level for starting the meter reading and closing the reading.

(viii) Bidder shall arrange all the hardware / software / environmental tools required for successful operation of spot billing at places, at his own expense and shall also maintain it for the operational period.

(ix) Basing on requirement, SBM OEM shall provide support for injection of CESU provided software (especially Java based) in the SBM device for the purpose of billing, collection, reporting, communication etc.

The above mentioned specifications are not final and may be modified. The successful bidder has to modify the software as and when required during the implementation/ Guarantee / Warranty / AMC period.

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Software Requirement Specification for Spot Billing Application

Version-I

IMPLIMENTATION OBJECTIVE:-

The objective of this project is to automate the meter reading activity by introducing Spot Billing Machine and on-spot bill generation.

CONSUMER COVERAGE :-

Central Electricity Supply Utility of Orissa (CESU) will cover approx 19 Lakhs LT voltage supplied consumers with contract demand less than 100KW/110 Kva on-spot billing.

CATEGORY OF CONSUMERS:-

The Category of Consumers, who are to be billed on spot billing machine are mentioned below:-

e) **Domestic Kutir Jyoti Consumers.** category code(05)

9 Domestic Other Consumers. **category code(01)**
10 General Purpose (GPS) Consumer. **category code(06)**
11 Specified Public Purpose (PI) Consumers . **category code(22)**
12 RGGVY consumer **category code(02)**
13 BGJY consumer **category code(04)**

BILL CALCULATION PROCEDURE:-

The bill calculation procedure for **Retail consumers** is as follows:-

c) Units Consumed (UC) = (Current Reading – Previous Reading) *MF
d) Energy Charge (EC) = UC * Tariff Rates
e) Minimum Monthly Fixed Charges (MMFC) =As per Tariff Rates
f) Electricity Duty(ED) = EC * 0.04 (if applicable)
(Note: Where the ED exceeds 40 paise per unit on above calculation, it shall be limited to 40 paise per unit)
g) Meter Rent (MR) = As per meter rent specified in Tariff Code (if applicable)
h) Current Bill Amount = EC + MMFC + ED +MR
i) Amount Payable before Due date = Previous Years Arrear + Current Year Arrear + Current Bill Amount – Rebate
j) Amount Payable after Due date = Previous Years Arrear + Current Year Arrear + Current Bill Amount

1 TARIFF Structure(Different Charges):-

The tariff structure for Category of Consumers, who are billed on spot billing machine.

1.1 Kutir Jyoti consumers: Monthly Fixed Charge (Rs./ Month)

1.2 Other classes of consumers:

(a) Energy Charge (Paise/unit)
(b) Monthly Minimum Fixed Charge (MMFC) (Rs./KW/ Month)
(c) Electricity Duty .(if applicable)
(d) Meter Rent (if applicable)

5) Tariff Rates:-

6) Monthly Minimum Fixed Charge (MMFC)

Sl.No	Category of Consumers	Monthly Minimum Fixed Charge for first KW or part(Rs.)	Monthly Fixed Charge for any additional KW or part(Rs.)
	LT Category		
1	Kutir Jyoti (KJ,RGGVY,BGVY)	80	
2	Domestic (other than Kutir Jyoti)	20	20
3	General Purpose LT (<110 KVA)	30	30
4	Specified Public Purpose	50	50

7) Energy Charge

8) Domestic category code(01)

Energy Charge for supply for domestic consumers availing low tension supply shall be as under:-

Domestic consumption slab	**Energy charge**
Consumption >0 &<=50 Units	- 250 paisa per unit
Consumption >50 & <=200 units	- 420 paisa per unit
Consumption >200 & <=400 units	- 520 paisa per unit
Consumption >400 units	- 560 paisa per unit

9) Kutir Jyoti **(KJ) consumers will pay the monthly minimum fixed charge @ Rs.80/- per month.**

Note: If the consumption unit is more than 30 units/month then the bill calculation will be as per domestic category.

This category can be divided into 3 category
I)KJ category code(05)
II)RGVY category code(02)
III)BGJY category code(04)

10) General Purpose LT **(<110KVA):** category code(06)

Slab	**Energy charge**
Consumption >0 &<=100 Units	- 530 paisa/unit
Consumption >100 & <=300 units	- 640 paisa/unit
Consumption >300 units	- 700 paisa/unit

11) Specified Public Purpose **at LT.** category code(22)

VOLTAGE OF SUPPLY	**ENERGY CHARGE**
Specified Public Purpose (LT)	560 paisa/unit

12) Delay Payment Surcharge (DPS):-

If the payment is not made within the due date, Delayed Payment Surcharge shall be charged for every day of delay at 1.25% per month on the amount remaining unpaid (excluding arrears on account of DPS) in respect of *Specified Public Purpose (PI)* category of consumers only.

Due Date of Payment:-

The due date of payment for all consumers shall be fifteen days from the bill date. *If the due date of payment is a public holiday, then succeeding working day* shall be treated as the due date.

13) Incentive for prompt payment:-

o) A rebate of 10 paisa/unit shall be allowed on energy charges if the payment of the bill (excluding arrears and electricity duty) is made by the **due date** indicated in the bill in respect of the following categories of consumers.

LT: Domestic, General purpose < 110 kva.
There is no provision of Rebate for Kutir jyoti consumers.

Note:-For the above mentioned categories, rebate date is same as that of due date.

Specified Public Purpose (PI) consumers shall be entitled to a rebate of 1% (one percent) of the amount of the monthly bill (excluding arrears and electricity duty), if payment is made within 3 days of the presentation of the bill. Further Hostels attached to the Schools recognised and run by SC/ST Dept., Govt. of Odisha shall get a rebate of Rs.2.40 paise per unit in energy charge under Specified Public purpose category (LT / HT) which shall be over and above the normal rebate for which they are eligible.

14) Meter Rent:-

The monthly meter rent shall be charged from the consumers to whom meter has been supplied by the licensee. After recovery of the Landed cost of the meter, no meter rent is charged further. The scale of meter rent including associated equipment applicable to various classes of consumers is given below:-

Type of Meter	**Rent in Rupees**
1. Single phase electro-magnetic kwh meter	20/-(code-01)
2. Single phase Static kwh meter	40/-(code-03)
3. Three phase electro-magnetic kwh meter	40/-(code-02)
4.Three phase static kwh meter	150/-(code-09)

Rounding off of consumer billed amount to nearest rupee :-

The rounding off of the electricity bills to the nearest rupee should be done and at the same time the money actually collected should be properly accounted for.

SPOT BILLING AND COLLECTION METHOD

15. Through Desktop a Flat file is generated from CESU database as input file to SBM for carrying out spot billing work. Input Data which is picked up should contain the following details :

    a. Previous billing data
    b. New Consumer detail and adjustment if any.
    c. Payment (How much consumer had paid)
    d. Average consumption (For average)

16. The input file for SBM should not be editable.
17. Flat file is uploaded in the SBMs
18. MR (Meter Reader) goes to consumer premises with SBM .
19. The MR will punch /select account no manually.
20. The consumer account no, name, address will display on the screen of SBM.
21. MR will ensure that correct account no has been assessed.
22. MR will enter CMS (Current Meter Status) based on the CMS, SBM prompts for CR (Current Reading).
23. SBM will process as per the procedures for checking and calculation of bill.
24. Bill components such as Energy charges, Electricity Duty, Meter Rent and Total Amount will appear on the screen so that the MR can view how much amount will be generated.
25. MR will print bill by pressing Enter key confirming the amount
26. MR will print bill and handover the bill and obtain the acknowledgement.
27. The SBM has facility to generate Intermediate reports as follows:
    - How much bills have generated and how many consumers are left for billing as per tariff code wise.
    - How much amount has collected by cash or cheque.
    - Daily cash or cheque collection report.
    - Upload to upload report.

BILLING PROCESS FOR SPOT BILLING MACHINE

Abbreviations which are used in script as follows:

1. PR = Previous Reading
(k) PMS = Previous Meter Status
(l) CR = Current Reading
(m) CMS = Current Meter Status
(n) CU = Consumed Units
(o) LRC = Last month recorded consumption.
(p) AC = Average Consumption
(q) ULF = Units as per Load Factor
(r) MR = Meter Reader
(s) SBM = Spot Billing Machine
(t) A= Average Billing
(u) M= Monthly minimum charges
(v) O= Normal Billing

AVERAGE CONSUMPTION (AC):

For a period meter remained **defective or was lost** ,the billing shall be done as per Rule 1.If the consumption as per Rule 1 is not available then billing shall be done as per Rule 3.

If the meter installed in the consumer **premises is not accessible** and meter reading can not be taken due to **house lock** or any other reason ,then bill should be raised as per Rule 2 with future adjustments. If the consumption as per Rule 2 is not available then billing shall be done as per Rule 3 with future adjustments.

Rule 1: Average consumption for the last three billing cycles for domestic /agriculture consumers and average consumption for the last six billing cycles for all other categories of consumers.

Rule 2: Last month Recorded Consumption (LRC)

Rule 3: In case none of the above average is available than calculate the average consumption based on ULF.

UNITS As Per LOAD FACTOR:-

To calculate units as per load factor formula as follows:

Domestic Category:

CL = Connected Load
Load Factor = 20%
Running Hours = 24
Days = 30
Units as per Load Factor = CL*0.2*24*30
Eg. = CL = 1KW
Units as per load factor = 1*0.2*24*30 = **144 Units**

For GPS / Pl Category:

CL = Connected Load
Load Factor = 30%
Running Hours = 24
Days = 30
Units as per load factor = CL*0.3*24*30
Eg. = CL = 1KW
Units as per load factor = 1***0.3***24*30= **216 Units**

The status authentication of meter is as follows:

O -O.K. meter reading when meter is functioning normally.
S - Meter not available on site
D- Meter Defective due to stuck,
R- Round Complete when meter is functioning normally.
P- Meter Reading was not taken in the previous month

Present Meter Status

METER STATUSWISE BILLING LOGIC:-

1. **Previous Meter Status 'O' and Current Meter Status 'O'**
   Step 1:SBM will check as per Procedure No. 1. After re-checking everything is OK as per MR then bill will be generated as per meter status recorded.
   Step 2: Bill will be generated as per Procedure No . 2.

f) Previous Meter Status 'O' and Current Meter Status 'R'.
In case of round complete, the current reading should be less than the previous reading.
i.g. Case of meter with 6 digit previous reading was 999300 and current reading is 000350 then the unit billed will be (999999 - 999300 + 1) + 350.

12 **Previous Meter Status 'P' and Current Meter Status 'O'.**
Bill will be generated on actual consumed units. The amount which we have already charged will be adjusted.

13 **Previous Meter Status 'P' and Current Meter Status 'R'.**
Bill will be generated on actual consumed units. The amount which we have already charged will be adjusted.

2.0 Previous Meter Status 'D' and Current Meter Status 'D'

Step1. SBM will check as per Procedure No. 3 and bill will be generated on as per cases mentioned in Procedure No. 3 without future adjustment.

6. Previous Meter Status is 'R' and Current Meter Status is 'O'

Step1:SBM will check as per Procedure No. 1. After re-checking everything is OK as per MR then bill will be generated as per meter status recorded.

Step2: Bill will be generated as per Procedure No. 2.

7. Previous Meter Status 'S' and Current Meter Status 'S'

Step1. SBM will check as per Procedure No. 3 and bill will be generated on as per cases mentioned in Procedure No. 3 without future adjustment.

	Status	**O**	**S**	**D**	**R**
PREVIOUS STATUS	**O**	O	NP	NP	O
	S	NP	A	NP	NP
	D	NP	NP	A	NP
	R	O	NP	NP	*
	P	O	NP	NP	O
O - OK Billing					
A – Average billing					
***-Never possible**					
NP-Not possible for meter reader to give current meter status					

PROCEDURE NO – 1:

For **OK billing**:

CU = Consumed Units
ULF = Units as per load factor
AC = Average Consumption
If CU > ULF then
Message shall be pop up that "Re-check reading". After rechecking if current reading is OK then bill will be generated on according to meter status code
Else
If CU < 50% of AC then
Message shall be pop up that "Re-check reading". After rechecking if current reading is OK then bill will be generated on according to meter status code
Else
Continue as per normal procedure
End if

PROCEDURE NO – 2:

(Billing as per Normal procedure)

Bill will be generated as per following status wise and reading wise
Previous Reading (PR) and Current Reading (CR) are same:
Bill will be generated on Monthly Minimum Charges (MMC)
If CR is greater then the PR
Bill will be generated on actual consumed units.
If CR is less then the PR
Message will pop up on the screen of SBM that current reading is less then previous reading. MR will again re-check reading and after re-checking if as per MR reading is OK. Then he will record 'R' status.

Bill will be generated on "O" to "R" case.
Current Meter Should be Change as R

PROCEDURE NO –3:

For **average billing**, the billing shall done on the average consumption .If average reading is not available then billing shall be done as per load factor units.

Structure:

The required structure is attached. For new consumer bill month will be calculated taking consideration of bill date-old date where connection date equal to Old date.

*********END**********

Some Typical Case Study

House Lock Billing with Example

vii) Current Month Bill Calculation (Let present month is May).
Example: Let
Domestic consumer having meter rent Rs 15 per month
Load=1 kw
Previous Meter Reading =5200 (For August month bill is prepared on house lock)
Now the meter reader input the present Meter Reading =5400 date 15.09.08
Units Advanced=200
House Lock Units=50(This is previous months billed units)
Provisional amount(to be adjusted)=Rs40(p.adj.amt)
House Lock Months =**1**
Arrear=Rs 300
Let the bill is prepared on the month of September.
The fixed charge(FC) will be calculate only for one month i.e. charge for only September month.
(ii) EC will be charge for 2 months**.**
(iii) ED will be charge basing on the EC.
(iv) Meter Rent will be charge for September month only that means only for single month**.**
(v) So **present month bill** = 1 month(Sept.) FC+ EC (for 2 months)+ED (as applicable)+1 month Meter Rent

Or Total amount=pres.Bill amount+arrear-P.adj.Amt

Rebate=(200-50)*10 paise i.e. [(units advanced-house lock units)* rebate]
Note :if (units advanced-house lock units) is –ve then rebate will be 0

T.BL BY DUE DATE:= **Total amount-rebate**

Note : The above mentioned specifications are not final and may be modified. The successful bidder has to modify the software as per present Tariff order & supply code specified by the OERC (Odisha Electricity Regulatory Commission) and as and when required by CESU during the implementation/ Guarantee / Warranty / AMC period. Further additional details of software requirement specification is mentioned at section of specification & implementation of spot billing software.

**********END**********

STRUCTURE FOR SBM SOFTWARE						
	Field Name	**Length**	**Data Type**	**Field description**	**Detail Description**	
EXISTING FIELDS FOR DATA FROM SYSTEM TO SBM	Consumer Number	8	char	Consumer Number	Customer Identification Number which is unique through out a division	
	Name	30	char	Name	Name of the Customer	
	address1	30	char	address1	Present/ 1st Address of the customer	
	address2	30	char	address2	Present/2nd Address of the customer	
	cluster	2	char	cluster	Group of clusters combine to form a section for ease of bill distribution	
	route number	3	char	route number	Identification of the customer according to the geographical area a group of routes forms the cluster	
	account number	20	char	account number	Consumer Code allotted depending upon the location	
	category	2	char	category	Category of the consumer e.g Dom,Com,PI	
	division	19	char	division name	Customer's Parent Divisional office Name	
	subdivision	15	char	subdivision name	Customer's Parent Sub-Divisional office Name	
	seccode	15	char	section code	Customer's Parent Section office. Name	
	meter Sl No	16	char	meter Serial Number	Meter Serial Number for identification written on the meter itself	
	mtrTp	2	char	meter type	Type of the meter install at customer premises e.g. Electrostatic meter or Electro magnetic Single Phase or Three Phase etc.	
	mf	2	Number	multiplicative factor	Meter Multiplying Factor(Calibration Factor for a meter It is different for different meter)	
	mtrown	1	char	metre own	Ownership of the meter(supplied by Party or CESU)	
	meter digits	2	int	meter digits	The Maximum Digits of the meter that can read	
	meter make	5	char	meter make	Meter Make	
	usage	7	char	purpose of connection		
	load	6	float	load	The Contract Demand /Connected Load of the Customer	
	omtrred	7	long	old meter reading	Previous meter reading value	
	connection date	10	char	connection date	Initial Power Supply Date of the Consumer	
	old date	10	date	old meter date	Previous meter reading Date	

	Field Name	Length	Data Type	Field description	Detail Description	
	old status	1	char	old status	Meter Condition whether Ok/Defective/No Meter	
	dps	8	float	dps	DPS amount charged	
	misc_charges	8	float	misc_charges	Miscellaneous charges	
	Cradj	10	float	Credit adjustment	Credit Adjustment made (type of Payment)	
	Dradj	10	float	Debit adjustment	Debit Adjustment made(type of Payment)	
	Pamount	10	float	Present amount	Provisional Billed amount(In case of House Lock)	
	Hl units	7	long	Hl units	House Lock units	
	old average	5	Number	old average	Average Units of last 3month or 6 month consumption	
	lstpaydt	10	char	last pay date	Last Payment Date	Payment
	last_rcptno	12	char	book number	Last Payment Book No	
	mrcptno	14	char	m receipt number	Last Payment Receipt No	
	totpayamt	10	float	total pay amount	Total Payment Amount	
	noOf Months	3	int	no Of Months	No of months for which bill is served (eg in case of HL etc.)	
	edExempt	1	char	electricity duty Exempt	Ed Exempted or Not	
	AIFI	5	Number	AIFI	Arrear Inspection Fee	
NEWLY ADDED FIELDS IN THE SBM FORMAT	new_mtrno	16	char	new meter slno	new meter slno for meter change case	
	newmtr_initial_reading	7	long	new meter initial reading	new meter initial reading for meter change case	
	mtrchange_dt	10	date	meter change date	meter change date	
	S.D. Interest (change to SD AVAIL)	10	float	Security deposit available	Security deposit interest	
	A.S.D.	10	float	Additional Security Deposit	Additional Security Deposit	
	A.S.D. Arrears(changed to SDINST ADJ IN ARR)	10	float	Security Deposit adjusted in Arrears	Additional Security Deposit Arrears	
	INSTALLATION_NO	12	Number	Installation No	New requirement for SBM Billing	
	Bill_no	14	Number	Bill No	New requirement for SBM Billing	
	Cust ID	12	Number	Customer ID	New requirement for SBM Billing	
	Bill_print_header	24	char	Bill Print Header	Contents of the field will be printed at time of Bill generation	
	Bill_print_footer1	50	char	Bill_print_footer1	Contents of the field will be printed at time of Bill generation	
	prev_yrs_arr	10	float	Previous Arrear	Previous Arrear	
	curr_yr_arr	10	float	Current Year Arrear	Current Year Arrear	
	ULF	7	Number	Units Load Factor	Units as per Load factor	
	LRC	7	Number	Last Recorded Consumption	Units consumed in previous Month	
	abnormal_reading	10	Number	Abnormal high reading	Abnormal high reading if units consumed>=10 times of average consumption.	

	Field Name	Length	Data Type	Field description	Detail Description	
	Bill_Month	3	char	Bill Month	Month for which bill is issued	
	ECS Limt	10	Number	Max Limit of ECS amount	It is the max amount to be collected through ECS	
	ECS Validity Period	10	Date	Validity of ECS period	Upto this date the ECS facility is available to Consumer	
		599				
DATA THAT WILL BE APPENDED AT THE END OF FILE (BILL.DAT) BY SBM AFTER METER READING	pmtrred	7	Number	present meter reading	Present Meter reading	
	pstatus	1	char	present status	Power Supply Status	Blank
	mtr_sts	1	char	Meter Condition	Meter Condition	
	mtr_inst_sts	1	char	Meter Installation Status	Meter Installation Status	
	units	5	Number	units	Units To Be Billed	
	bbasis	1	char	bbasis	Bill Basis	N/A
	eng chg	9	Number	energy charges	KWh Charges	
	mmf chg	8	Number	meter multiplying factor charges	MFC Charges	
	mtrrent	8	Number	meter rent	Meter Rent	
	ed chg	8	Number	electricity duty charge	Ed Charges	
	ptotal	10	Number	ptotal	Current Month Billing Total	
	Rebate	8	Number	Rebate	Rebate Amount	
	btotal	10	Number	btotal	Actual Amount To Be paid by considering previous month payment & arrear	
	pavg	5	Number	present average	Average Units Billed	
	rcptNo	14	char	receipt Number	Money Receipt No if Consumer pays at the time when reading is taken	
	chqNo	10	char	cheque Number	Cheque No if Consumer pays at the time when reading is taken	
	chqDt	10	char	cheque Date	Cheque date if Consumer pays at the time when reading is taken	
	bank	10	char	bank name	Name of issuing bank of cheque if Consumer pays at the time when reading is taken	
	rcptAmt	10	Number	receipt Amount	Amount collected	
	Due Date	10	Date	Bill Due Date	Bill Due date	
	Disconnection date	10	Date	Disconnection Date	Disconnection date	
	Meter Reading Time	6	Number	Meter Reading Time	Meter Reading taken time (hhmmss)	
	Bildate	10	Date	Billdate	Bill generation date	
	Total	**771**				

Note:- The above mentioned structure is not final. It may change as per the requirement of CESU during 72 Months guarantee period.

SECTION –V

LIST OF ANNEXURES

(SCHEDULES AND FORMATS)

Annexure – I

CENTRAL ELECTRICITY SUPPLY UTILITY OF ORISSA
Head Office: IDCO TOWER, 2nd Floor, Janpath, Bhubaneswar-751022
TELEPHONE: (0674) - 2542895, 2545681, 2541727,FAX: 0674 – 2543125

ABSTRACT OF GENERAL TERMS AND CONDITIONS

Spec. No. CESU /P&S/ 314/2015-16

1. Whether the bidder is a Manufacturer & furnished relevant documents: Yes / No
2. Address of the local service centre at Bhubaneswar ……..
3. Quantity Offered :
4. Required Cost of Tender Furnished: Yes / No
5. Required Earnest Money Bank Draft :- Furnished / Not Furnished
6. Whether Type test certificates enclosed with the bid: Yes / No
7. Manufacturer's past supply experience including user's certificate furnished or not: - Yes / No
8. Audited annual reports for the last 3 years furnished or not: Yes / No
9. Deviation to the specification , if any (List enclosed or not):- Yes / No
10. Whether agreed to CESU's Delivery schedule: Yes / No
    If agreed,
    a) Date of commencement
    b) Rate of delivery per month
11. Whether agreed to CESU's Guarantee clause:- Yes / No
12. Whether agreed for 180 days' validity period of Prices Yes / No
13. Whether the Prices are **FIRM**? Yes / No
14. Whether agreed to furnish security deposit in shape of B.G. encashable at Bhubaneswar in case his tender is successful: - Yes / No
15. Whether agreed to penalty for delayed delivery: - Yes / No
16. Whether agreed to CESU's standard terms of payment or not: Yes / No
17. Valid ITCC & STCC furnished or not: Yes / No

Signature of the bidder
With seal of the Bidder

This form is to be duly filled up & ink signed by the Bidder along with seal & submitted along with the Part-I of tender.

Annexure – II

CENTRAL ELECTRICITY SUPPLY UTILITY OF ORISSA
Head Office: IDCO TOWER, 2nd Floor, Janpath, Bhubaneswar-751022
TELEPHONE: (0674) - 2542895, 2545681, 2541727,FAX: 0674 – 2543125

DECLARATION FORM

Spec. No. CESU /P&S/ 314/2015-16

To

Sir,

Having examined the above specifications together with the Tender terms and conditions referred to therein.

1- I / we the undersigned do hereby offer to supply the materials covered thereon in complete shape in all respects as per the rules entered in the attached contract schedule of prices in the tender.

2- I / we do hereby undertake to have the materials delivered within the time specified in the tender.

3- I / we do hereby guarantee the technical particulars given in the tender supported with necessary reports from concerned authorities.

4- I / we do hereby certify to have furnished a copy of the tender specifications by remitting Cash/ Demand draft & this has been duly acknowledged by you in your letter No……..Dt…….

5- I / we do hereby agree to furnish the composite Bank Guarantee in the manner specified / acceptable by THE <CESU> & for the sum as applicable to me / us as per clause No.3 in Annexure-III of this specification within fifteen days of issue of Letter of intent / Purchase Order, in the event of Purchase order being decided in my / us favour , failing which I / we clearly understand that the said LOI / P.O. shall be liable to be withdrawn by the CESU

Signed this…….Day of……2015….

Yours faithfully,

(Signature of Tenderer with Seal)

(This form should be duly filled up & signed by the bidder & submitted along with the original copy of the bid)

ANNEXURE – III

PROFORMA FOR COMPOSITE BANK GUARANTEE FOR SECURITY DEPOSIT, PAYMENT AND PERFORMANCE

This Guarantee Bond is executed this ____ day of _____ by us the _____ Bank at _____ P.O._____ P.S. _____Dist _____ State _____

(Indicate designation of CESU)

Where as the CESU, Address(Head Office,2nd Floor, IDCO Towers,Janapath Bhubaneswar-22 a Body corporate , constituted under the Electicity Act 2003, …… (here in after called "the CESU") has placed Purchase Order No._____ Dt._____ (hereinafter called "the Agreement") with M/s_____ _____ (hereinafter called "the Contractor") for supply of _____ (name of the material) and whereas CESU has agreed (1) to exempt the Contractor from making payment of security deposit, (2) to release 100% payment of the cost of materials as per the said agreement and (3) to exempt from performance guarantee on furnishing by the Contractor to the CESU a composite Bank Guarantee of the value of 10% (ten percent) of the Contract price of the said Agreement.

1. Now, therefore, in consideration of the CESU having agreed (1) to exempt the Contractor for making payment of security deposit, (2) to release 100% payment to the Contractor and (3) to exempt from furnishing performance guarantee in terms of the said Agreement as aforesaid, we the _____ Bank, Address _____ (code No. _____) (hereinafter referred to as "the Bank") do hereby undertake to pay to the CESU an amount not exceeding Rs._____ (Rupees _____) only against any loss or damage caused to or suffered by the CESU by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement.

2. We, the _____ Bank do hereby undertake to pay the amounts due and payable under the guarantee without any demur, merely on a demand from the CESU stating that the amount claimed is due by way of loss or damage caused to or suffered by the CESU by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement or by the reason of any breach by the said Contractor's failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs._____ (Rupees _____) only.

3. We, the _____ Bank also undertake to pay to the CESU any money so demanded not withstanding any dispute or dispute raised by the Contractor(s) in any suit or proceeding instituted/ pending before any court or Tribunal relating thereto our liability under this Agreement being absolute and unrevocable.

The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.

4. We, the _____ Bank further agree that the guarantee herein contain shall remain in full force and affect during the period that would be taken for the performance of the said Agreement and it shall continue to remain in force endorsable till all the dues of the CESU under by virtue of the said Agreement have been fully paid and its claim satisfied or discharged or till CESU certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharge this guarantee and will not be revoked by us during the validity of the guarantee period.

Unless a demand or claim under this guarantee is made on us or with_____ _____ (Local Bank Name, address and code No.) _____, Bhubaneswar in writing on or before _____ (date) we shall be discharged from all liability under this guarantee thereafter.

Contd : - P/ 2

5. We, the _____ Bank further agree that the CESU shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said Contractor(s) and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said Contractor(s) or for any forbearance act or omission on part of the CESU or any indulgence by the CESU to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would but for this provisions have effect of so relieving us.

6. The Guarantee will not be discharged due to change in the name, style and constitution of the Bank and or Contractor(s).

7. We, the _____ Bank lastly undertake not to revoke this Guarantee during its currency except with the previous consent of the CESU in writing.

Dated _____ the _____ day of Two thousand _____ .

Not withstanding anything contained herein above.

Our liability under this Bank Guarantee shall not exceed Rs._____ (Rupees _____ _____) only.

The Bank Guarantee shall be valid up to _____ only.

We or our Bank at Bhubaneswar (Name & Address of the Local Bank) are liable to pay the guaranteed amount depending on the filing of claim and any part thereof under this Bank Guarantee only and only if you serve upon us or our local Bank at Bhubaneswar a written claim or demand and received by us or by Local Branch at Bhubaneswar on or before Dt._____ otherwise bank shall be discharged of all liabilities under this guarantee thereafter.

For _____
(indicate the name of the Bank)

N.B.:

(1) Name of the Contractor:

(2) No. & date of the Purchase order / agreement:

(3) Amount of P.O. :

(4) Name of Materials :

(5) Name of the Bank:

(6) Amount of the Bank Guarantee:

(7) Name, Address and Code No. of the Local Branch:

(8) Validity period or date up to which the agreement is valid:

(9) Signature of the Constituent Authority of the Bank with seal:

(10) Name & addresses of the Witnesses with signature:

(11) The Bank Guarantee shall be accepted only after getting confirmation from the respective Banks.

ANNEXURE – IV

GUARANTEED TECHNICAL PARTICULARS OF SPOT BILLING MACHINES (SBM)

T.S No- CESU/ P&S/ 314/2015-16

1. High Speed Processor 72 MHz
2. Bit rate 32 bit
3. At least 64 MB SD RAM
4. At least 256 MB program memory
5. At least 1 GB Data Memory
6. Paper width 57 mm
7. Host System Any (DOS,WIN,UNIX,LINUX or any other)
8. Recharging time maximum 3 hrs
9. Real time clock with Battery backup
10. High-Clarity LCD 128 x 64 Pixels Graphic Display with back light
11. Minimum 30 keys alphanumeric keypad.
12. Built-in 24 Column high speed Alpha-numeric Impact printer.
13. High speed USB port for communication to PC (Optional: Second Port)
14. Built-in Battery (minimum 2,000 mAH Li-on) & associated intelligent charging circuitry.
15. Built-in- Battery Status indicator.
16. Housed in ABS Plastic case with carrying case and one cable for communications.
17. User manual, AC Adapter, Carrying bag.
18. Weight less than 1 kg.
19. Printing time of single bill (Approx. 30 cm) - Less than 40 seconds
20. Booting Time - Less than 60 seconds
21. GPRS/GSM facility for data transmitting from SBM to Server & Server to SBM - with TCP/IP communication Protocol and With Antenna
22. Data security and integrity features: Multi-level Password

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GUARANTEED TECHNICAL PARTICULARS OF ADDITIONAL 900NOS. BATTERIES

1. Built-in Battery (minimum 2,000 mAH Li-on) & associated intelligent charging circuitry.

NB:- Bidders are requested to accept, sign and submit the above GTP along with the bid documents.

Annexure- V

Price Schedule for Materials/Equipments Offered as per Specification No- CESU /P&S/ 314/2015-16
Name of Bidder _____

Sl No	Component Description	Quantity in Nos.	Ex-works price per unit including packing(in Rs)	Excise Duty with Education cess@ 14%(In Rs)	CST @ 2 % against Form C (In Rs)	Forwarding Freight and insurance (In Rs)	Entry Tax (In Rs)	Total Landing Cost per Unit (in Rs)	Buy back cost of old SBM (in Rs.)	Total Cost (in Rs) (8-9)
	1	2	3	4	5	6	7	8	9	(8-9)
1	SBM with 6 years guarantee having Impact Printer	300								A
2	Batteries suitable for above SBMs	900							NA	B
	GRAND TOTAL (A+B)									

Signature of Bidder with Seal &
Date_____

Note: 1. Any Column left blank shall be treated as NIL / Inclusive of.
2. Unit Price under column-11 is inclusive of all Taxes & Duties.
3. In case of discrepancy between unit price and total price, the unit price shall prevail over the total price.
4. Bidder shall also quote the unit rate of taxes & duties.
5. Alternate Price bid shall be rejected outright.
6. Mandatory spares shall be supplied to CESU free of cost along with the above SBMs as per Clause No.25.4 of Section-II (ITB)
7. The bidders are requested to quote full quantity as per the above schedule, otherwise the bid shall not be considered for evaluation.

The above is to be duly filled up, signed and submitted in sealed condition in a separate envelop superscribed as " Part-II Bid – Price Bid"

ANNEXURE VI (A)

(TECHNICAL DEVIATION FORMAT)

Clause No	Prescribed as per Tender Specification	Deviation in the bidder's Offer

Bidder's Signature with Seal.

N.B :

The bidder has to mention all technical deviations in his offer which differs from the Technical Requirement of this Tender in above format. Deviations not mentioned in above format but mentioned in any other format or in any other part of the offer document shall not be considered as deviation and the bidder shall be deemed to have accepted our technical requirement without deviation.

ANNEXURE VI (B)

(COMMERCIAL DEVIATION FORMAT)

Clause No	Prescribed as per Tender Specification	Provided in the bidder's Offer

Bidder's Signature with Seal.

N.B :

The bidder has to mention all commercial deviations in his offer which differs from the Commercial Requirement of this Tender in above format. Deviations not mentioned in this format but mentioned in any other format or in any other part of the offer document shall not be considered as deviation and the bidder shall be deemed to have accepted our commercial requirement without deviation.

ANNEXURE – VII

SELF DECLARATION FORM

Name of the Purchaser: ----------

Tender No: ----------

Sir,

2. I/We, the undersigned do hereby declare that, I/We have never ever been blacklisted and / or there were no debarring actions against us for any default in supply of material / equipments or in the performance of the contract entrusted to us in any of the Electricity Utilities of India.

3. In the event of any such information pertaining to the aforesaid matter found at any given point of time either during the course of the contract or at the bidding stage, my bid / contract shall be liable for truncation / cancellation / termination without any notice at the sole discretion of the CESU.

Yours faithfully,

Place-

Date-

Signature of the bidder

With seal

(This form shall be duly filled-up and signed by the bidder & submitted along with the original copy of the Bid.)

ANNEXURE – VIII

SELF DECLARATION FORM FOR SUCCESSFUL EXECUTION OF PURCHASE ORDERS

Name of the Purchaser:-Central Electricity Supply Utility Of Odisha (CESU)
Tender Notice No :-
Tender Specification No: CESU /P&S/ 314/2015-16. for Procurement of Spot Billing Machines.

Sir,

With reference to above, I/we, the undersigned do hereby declare that, I/we have successfully executed following Purchase Orders for tendered Spot Billing Machines minimum 50% of the quoted/offered quantity during any one of the financial year in the relevant years as provided under Clause 6.1.1 (b), Section – I of your Tender Specification mentioned above.

Sl. No.	P.O. No. / Dt.	Name and Address of the Buyer	Specification of Spot billing Machines supplied	Quantity Supplied in Nos.	Date of completion of delivery

Yours faithfully,

Place-
Date-

Signature of the bidder
With seal